

# THE AMERICAN School Board Journal

*June*



June,  
1905  
VOL. XXX. No. 6.

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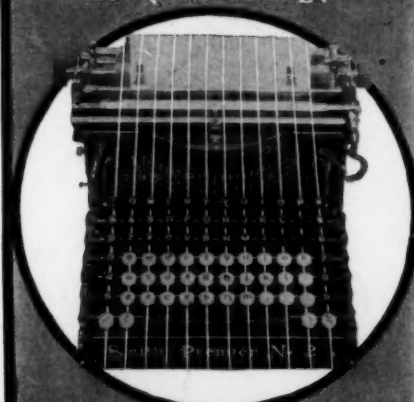
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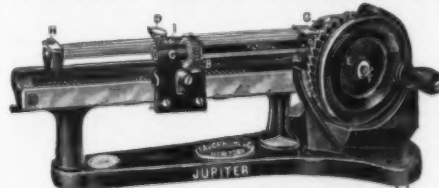
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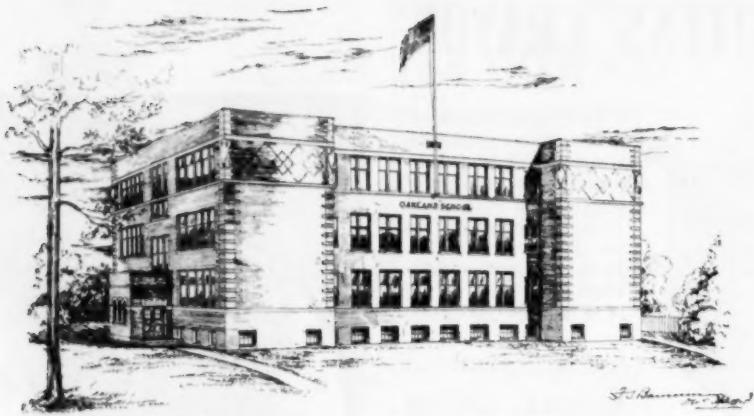
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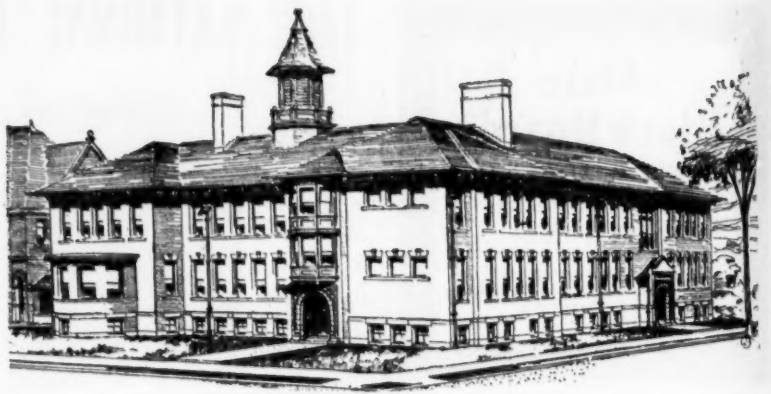
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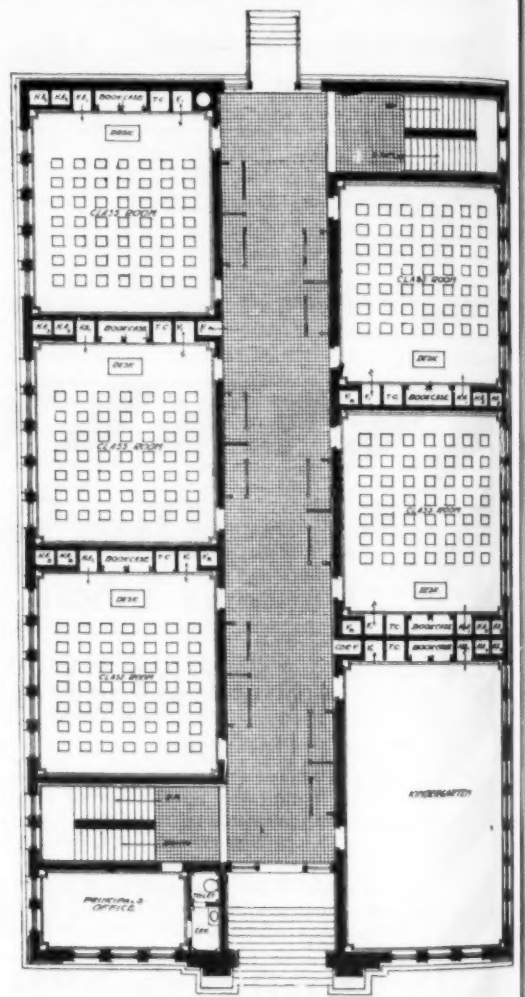
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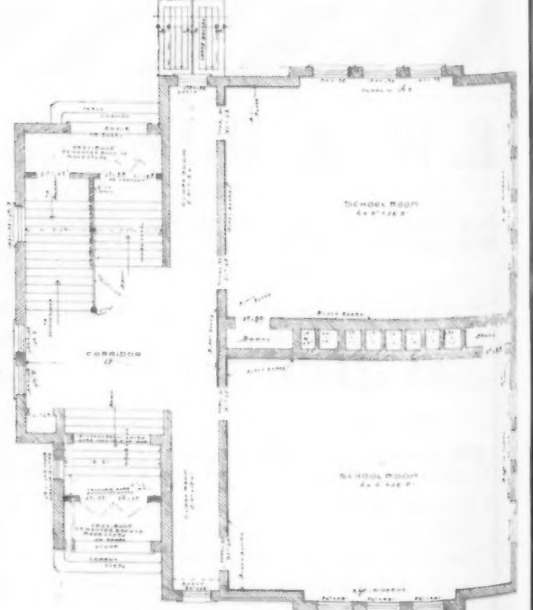
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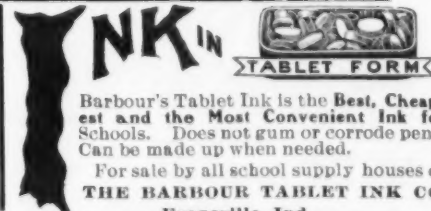
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Pratt Teachers' Agency, " "  
Syracuse Teachers' Agency, Syracuse  
Albany Teachers' Agency, Albany  
Normal Teachers' Agency, " "  
Rome Teachers' Agency, Rome, N. Y.  
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Fisher's Teachers' Agency, " "  
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## ABBREVIATIONS.

Barnes	A. J. Barnes Publishing Co., St. Louis, Mo.
Educational	Educational Publishing Co., New York, Chicago.
Ginn	Ginn & Co., Boston, New York, Chicago.
Heath	D. C. Heath & Co., Boston, New York, Chicago.
Houghton	Houghton, Mifflin & Co., Boston, New York, Chicago.
Jenkins	Wm. R. Jenkins, New York City.
Longmans	Longmans, Green & Co., New York.
Maynard	Maynard, Merrill & Co., New York, Chicago.
Merriam	G. & C. Merriam Co., Springfield, Mass.
Macmillan	The Macmillan Co., New York, Chicago.
McNally	Rand, McNally & Co., Chicago, New York.
Meyers	Myers, Fishel & Co., Harrisburg, Pa.
National	National Publishing Co., Louisville, Ky.
Peckham	Peckham, Little & Co., New York.
Pitman	Isaac Pitman & Sons, New York.
Prang	Prang Educational Co., Boston, New York, Chicago.
Sadler	Sadler-Rowe Co., Baltimore.
Scott	Scott, Foresman & Co., Chicago, New York.
Silver	Silver, Burdett & Co., Boston, New York, Chicago.
Sower	Christopher Sower Co., Philadelphia.
Thompson	Thompson, Brown & Co., Boston, Chicago.
University	University Publishing Co., New York, New Orleans.
Sanborn	Benj. H. Sanborn & Co., Boston, New York, Chicago.

## ALGEBRA.

Westworth Series	Ginn
Beman & Smith	Ginn
Wells' Series	Heath
Bowser's Series	" "
McCurdy's Exercise Book	" "
Hall & Knights	Macmillan
Thompson's New First Book	Maynard
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Brooks' Series	" "
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Nicholson's Ele.	" "
Venable Series	" "

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Beman & Smith	" "
Prince's	" "
Smith's	" "
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Eaton's	" "
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Thompson's Complete	" "
Rand, McNally's Prim-	" "

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Abbott-Gaskell's Outlines	Silver

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Howe's Elements	Silver
Peck's Constellations	" "

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Parker's	Macmillan

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Seavy's Practical	" "
Montgomery's Mod	Merrill
Rowe's Comm. Indus-	" "
trial	Sadler
Hall's Art of Accounts	Silver
Mayhew's Series	" "
Lyte's Book	Sower
McMurry's	Thompson
American Accountant	University

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Atlas Tablets	Central
Bergen's	Ginn
Spalding's	Heath
Stevens	" "
Bailey's	Macmillan
Bailey's Lessons	" "
Harshberger's Herbarium	" "
" "	Sower

## CHEMISTRY.

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McGregory's	" "

## CIVIL GOVERNMENT.

Macy's	Ginn
Davis'	" "
Flickinger's	Heath
John Fiske's	Houghton
Strong and Schafer's	" "
Young's	Maynard
Mowry's Elements	Silver
Mowry's Studies	" "
Shepard's	Sower
Finger's Lowry's	University

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Crow's Commerce	" "
Richardson's Commercial Law	Sadler

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Webster's History of Commerce	Ginn

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Mother Tongue, BK. III	" "
William's Practical	Heath

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Heath's French	Heath
" German	" "
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Webster's International	" "
" Collegiate	Merriam
Collegiate (Special Thin Paper Edition)	" "
Brown & Haldeman	" "
Clarendon	University

## DRAWING.

Augsburg's	Educational
National Course	Ginn
Thompson's Aesthetic Ser.	" "
" Mechanical Ser.	Heath
Thompson's N. Short Course	Heath
Anthony's Mechanical	" "
" Machine	" "
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Halle's Prac. Draw.	Maynard
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Andrews' Institutes	Silver
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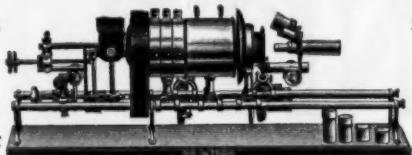
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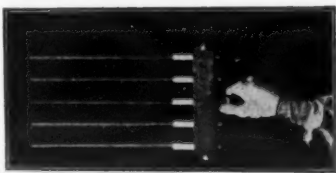
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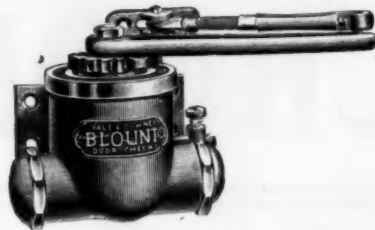
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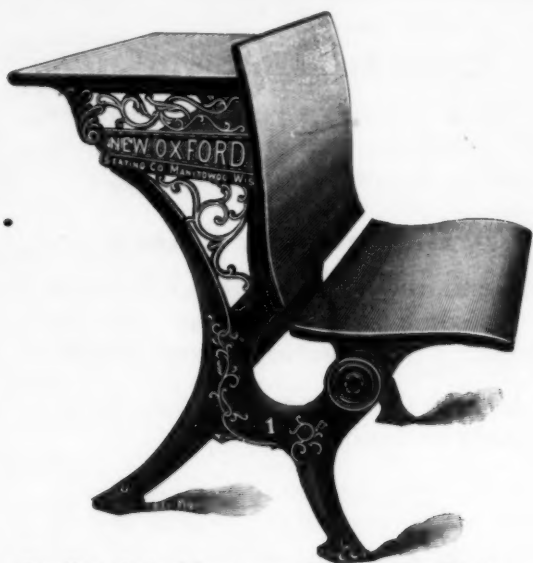
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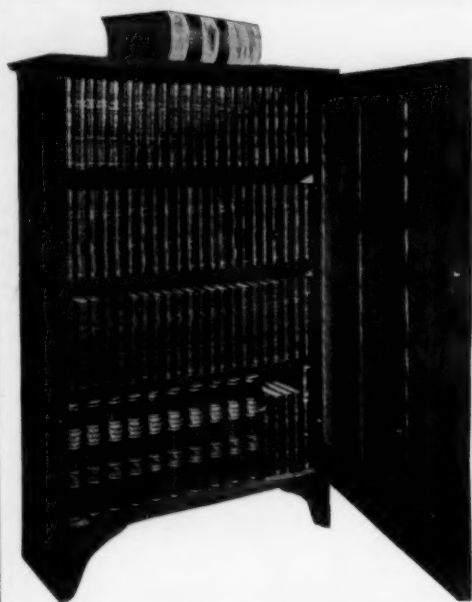
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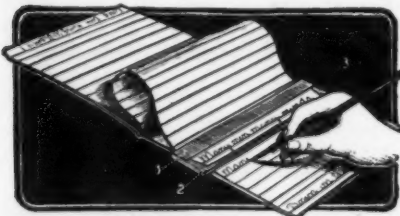
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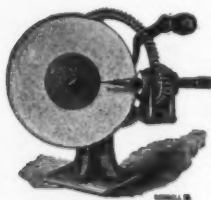
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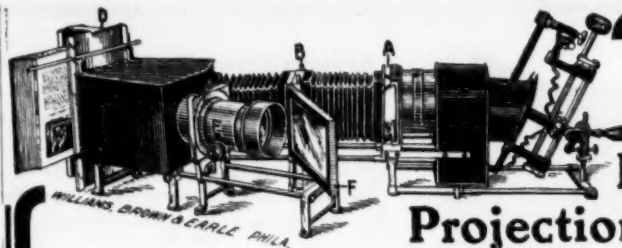
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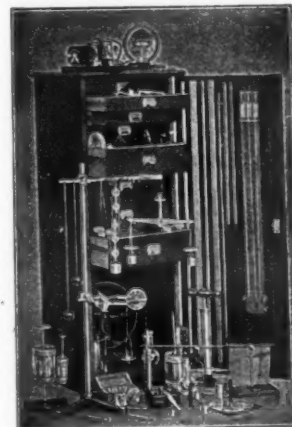
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# School Board Journal

This Journal was founded 1890 by WILLIAM GEORGE BRUCE.

VOL. XXX, No. 6.

MILWAUKEE—NEW YORK, JUNE, 1905.

SUBSCRIPTION PRICE  
\$1 PER YEAR.



## WILLIAM PENN COMMENDS IT.

The new School Board plan, formulated by a Public Commission for the City of Philadelphia, passed by the Pennsylvania Legislature and signed by Governor Pennypacker.

(SEE PAGE 4)



#### A Peculiar Suit.

Muncie, Ind. Alleging that she was made to suffer months and months of intense agony, because ex-Trustee Lucian A. Johnson, of Harrison township, failed to do his duty while in office, Miss Elizabeth Wheeldon, a school teacher, has brought suit against him and his bondsmen for damages in the sum of \$1,500.

She claims the roof leaked, the window panes were broken, the premises were left in a filthy condition—all resulting in the teachers ill health.

#### Districts in Debt.

Pawtucket, R. I. Commissioner of Public Schools, Hon. Thomas B. Stockwell, has recently explained the requirement for district organization of township schools as follows: "In case any district is in debt, the district organization continues to exist until the debt is discharged. Taxes can be voted, assessed and collected as heretofore, and district officers elected as usual."

#### Compulsory Education.

The new Missouri law will go into effect June 16. The essential features of the law are as follows:

Every child between 8 and 14 shall attend regularly some day school not less than half the time the school is in session.

Every child between 14 and 16, who is not actually, regularly and lawfully employed, shall attend school.

A child may be temporarily excused by a court having competent jurisdiction from attending school on account of mental or physical incapacity; if the parent or guardian is unable to provide proper clothing; if there is no school within two and one-half miles of the residence; if the child has already completed the common school course; if the labor of the child is absolutely necessary to support the family.

Any parent or guardian who violates the provision of the law is guilty of misdemeanor and is subject to both fine and imprisonment.

The enforcement of the law devolves on school boards. In cities of 3,000 population and more, they may appoint truant officers to enforce the law and pay such officers out of school funds.

No child between 8 and 14 shall be employed in mine, factory, workshop or mercantile establishment unless such child has complied with all the requirements regarding attendance, excuses, etc.

Any person who employs a child between 8 and 14 without securing certificate from school authorities that said child has complied with the law is guilty of misdemeanor and subject to a fine of \$50 and costs.

In cities having a population of 10,000 or more, the school boards are authorized to establish and maintain one or more ungraded truant or parental schools for the education of children who are habitual truants or who are incorrigible, vicious or immoral.

School boards shall publish or post notices of the provisions of this law just before the opening of each year.

Members of school boards and regularly appointed truant officers may arrest any child not legally excused from attending school and put the child in some day school that may be selected by parent or guardian. In case parents or guardian makes no choice, then in the public school of the district.

#### Bible Reading Sustained.

Kansas. The Supreme Court upheld the Topeka Board of Education in the Billard Bible case. It decided that the reading of the Bible and the repeating of the Lord's Prayer are proper in the public schools. The decision says:

"A public school teacher, who, for the purpose of quieting the pupils and preparing them for their regular studies repeats the Lord's Prayer and the Twenty-third Psalm, as a morning exercise, without comment or remark, in which none of the pupils are required to participate, is not conducting a form of religious worship, or teaching sectarian or religious doctrines."

#### Question of Authority.

Attorney-General Hadley of Missouri in a decision recently rendered by him in reference to the act passed by the last legislature repealing the school book law of 1897, expressed the opinion that the selection of school books is now vested in the local school boards, guided to some extent by the suggestions of the State Board of Education.

The American Book Company, which has supplied nearly all the school books at present used in the public schools of the state under this law, disagrees with the attorney general, and in a letter from their general manager to a party in this city says: "I think the attorney-general is entirely wrong, and that in repealing the old law it did not confer any powers on other boards, and that there is no legal authority in Missouri to-day to select text-books for the public schools of the state."

This opinion of the attorney-general and the position of the book company will likely raise an issue between the school boards and the book company. The American Book Company will supply books to the school children, as was the mode and manner of doing so before the act of 1897, now repealed, was passed, and the school book commission, now abolished, was created, should it conclude to disregard the interference and authority of the local boards and the State Board of Education in the matter.

There is a law upon the statute books of the State of Tennessee which forbids the location of schools within two miles of each other in the rural districts where the schools in question do not have an enrollment of seventy pupils and where there are no physical barriers between them.

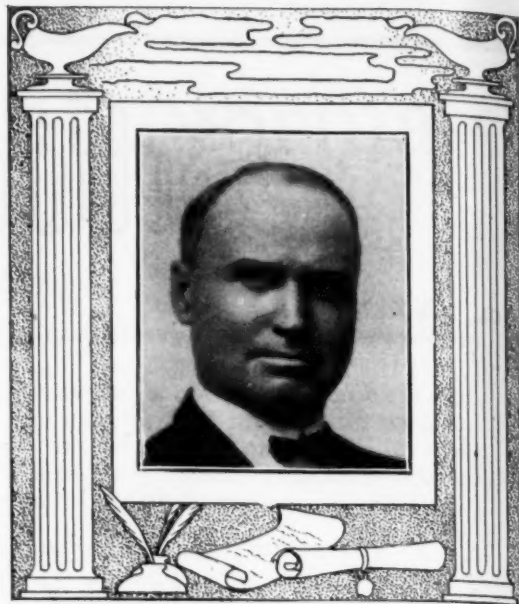
Columbus, Ohio. The Supreme Court of Ohio has rendered a decision that boards of education are empowered to fix the salary to be paid to the city treasurer of the school district. The new code provides that the city treasurer act as treasurer for the school district.

Utah. The Supreme Court has given a decision forbidding the holding of dances in school houses.

Justice Roosch, of New York City upholds the constitutionality of the compulsory school law, which forbids the employment of children under 14 years of age during the school year. The law went into effect about a year ago, and this decision was rendered in a test case brought by New York City, the first one brought under the law. Neither good faith on the part of the employer nor deception on the part of the child or its parents is an adequate defense.

Illinois. The county court of Sangamon county has decided that school districts cannot create a building fund and levy taxes for such a fund, unless the money so raised is to be expended for building purposes and has been voted by the district.

The decision is in the case of several rail-



HON. P. H. KELLEY.

State Superintendent of Public Instruction,  
Lansing, Michigan.

roads who objected to the payment of school taxes in districts in which fictitious building funds had been created for the purpose of getting additional funds into the school treasuries.

Ohio. The Attorney General has ruled that in accordance with the school laws of the state boards of education must pay teachers their regular salary for attending the county Teachers' Institute, provided they have a certificate of full attendance at the institute, signed by the President and Secretary thereof.

Cincinnati, Ohio. The city solicitor has rendered an opinion stating that the board of education can not in any sense be a landlord and therefor cannot rent buildings which it may hold. The board recently had acquired several houses on land which it purchased and the above opinion was requested to settle the question whether or not the board could draw revenue from the buildings until the same had been turned into temporary schools.

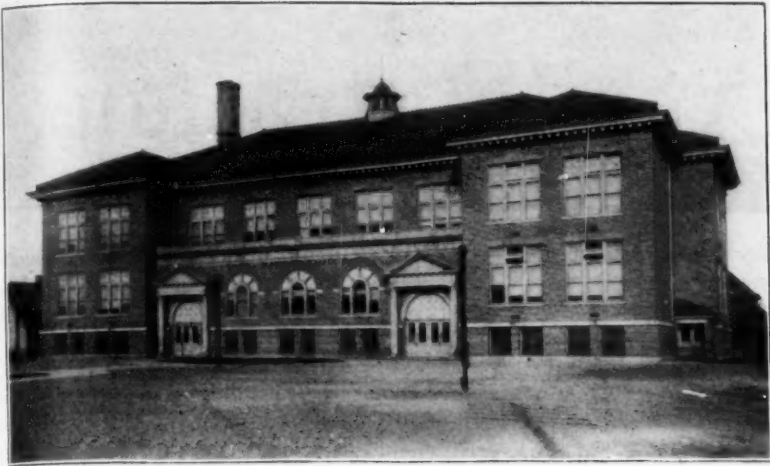
A committee of the Georgia Educational Association has issued a memorial asking that the state school superintendents be elected for a longer period than one year. This committee, of which Prof. David C. Barrow of Athens is chairman, argues that the term of office should be at least three years.



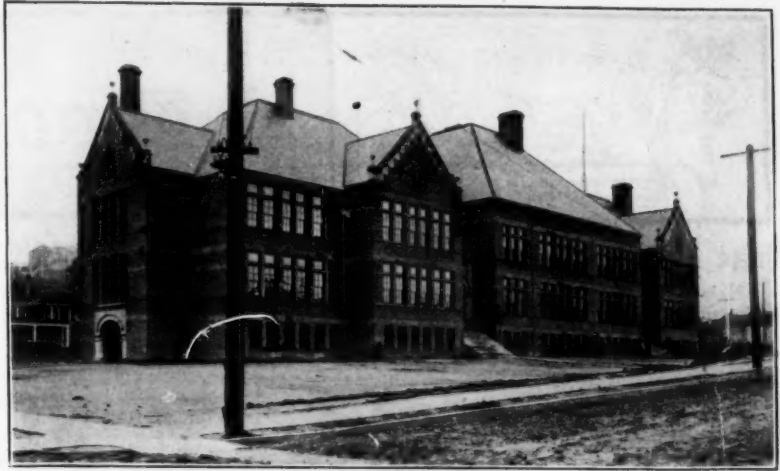
Miss Knowsitt: "Now that I've graduated from the seminary, I think I'll take a course in psychology."

Her Mother: "Not on your life. You'll take a course in roastology, boilology, sweepology and domestic workology."





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# School Administration

## THE PHILADELPHIA SCHOOL SYSTEM.

### New Law Goes Into Effect January 1, 1906.

The new system of administration for the Philadelphia schools, the basis of which was formulated and proposed by a commission appointed for that purpose, has become a law and will go into effect next January.

The commission consisted of W. W. Justice, chairman; David H. Lane, Henry R. Edmunds, William H. Lambert and Dr. Martin G. Brumbaugh. Public meetings were held and educators and others interested to express their views as to a good system.

### How Appointed.

The control of all the schools of Philadelphia shall be vested in a Board of Public Education to consist of twenty-one members, who shall be appointed by the Judges of the Courts of Common Pleas, for terms of three years each, except that the original appointment under this act shall be as follows: Seven for one year, seven for two years and seven for three years, and members shall be eligible for re-appointment. The members shall serve without compensation. Vacancies shall be filled by said judges. No person shall be eligible who shall be less than 30 years of age and who shall not have resided in the school district at least one year immediately preceding the appointment.

The board of education shall meet for organization upon the first Monday in January next.

### Sectional School Boards.

Sectional school boards in and for each ward of Philadelphia, consisting of twelve members each, shall be chosen by the qualified electors in each ward of the city at the next annual municipal election, four for one year, four for two years and four for three years, and thereafter at each annual election four for three years, provided that no elector shall vote for more than three candidates for membership in any sectional school board except at the next annual municipal election, when an elector may vote for not more than nine—three for a term of one year, three for a term of two years and three for a term of three years. And provided, further, that when vacancies occur the electors may vote for candidates to fill unexpired terms.

The members of sectional school boards shall be residents of the ward from which they are chosen. They shall take the oath of office. They shall serve without compensation. Vacancies caused by death, resignation or otherwise shall be filled by a majority of the surviving directors until the next annual election, when the electors shall fill such vacancy or vacancies for the unexpired term or terms.

### Sectional Board's Duties.

The duties and powers of the sectional school boards shall be the following: In their respective wards or districts they shall visit at least once in every quarter all the schools therein and inspect the same. They shall, without delay, call the attention of the board of public education or of the appropriate executive officer of the board to every matter requiring official action. They shall also make an annual report in writing to the Board of Public Education in respect to the condition of the schools and the wants of the section, especially in regard to the number, equipment and efficiency of schools

and school buildings. They shall organize on the second Monday immediately succeeding their election, at such place as shall be designated by the board of education, by choosing a chairman and such other officer as they may agree upon, including a secretary.

The secretary of each sectional school board shall receive annually such salary, not to exceed \$100, as shall be determined by the board of education.

### Employ Three Experts.

The executive work of the board of education shall be committed to three expert agents, who shall be appointed by said board, and shall be subject to removal at the pleasure of the board. Said agents shall be a superintendent of schools, a superintendent of buildings and a superintendent of supplies. Said agents shall be paid such compensation as shall be determined by the board of education. They shall be responsible to the board for the conduct of their respective departments, shall make annual reports to the board, and shall from time to time submit such plans and suggestions for the improvement of the schools and the school system as the board of education may require or as they shall deem expedient.

### Superintendent's Duties.

Supervision of all matters pertaining to instruction in all the schools under the board of education shall be vested in a superintendent of schools and such number of associate superintendents as may be deemed necessary. The superintendent shall have a seat in the board and the right to speak on all matters before the board, but not to vote. District superintendents may be appointed by the board of education on the nomination of the superintendent. They shall receive such compensation as the board of education shall determine. They shall be under the supervision and direction of the superintendent of schools, and shall be assigned by him to administrative districts. They shall inquire into and supervise all matters relating to the government, courses of study, methods of teaching, discipline and conduct of all the schools in their respective districts, and shall report the same when required to the superintendent of schools and to the sectional school boards of their respective districts. The district superintendent of a district shall have a seat in each sectional school board of his district and the right to speak, but not to vote, nor shall he hold office in said boards.

### Qualification of Teachers.

The board of education of each school district of the first class shall prescribe the mode or modes of determining the qualifications of applicants for positions as teachers in the schools of the district, and shall designate the kinds or grades of licenses or certificates of qualification to teach which may or shall be used in the district, together with the scholastic and professional qualifications required for each kind or grade of license or certificate.

### Healthy and Moral.

No license or certificate shall be granted to any person who is not of good moral character nor to any person who shall not first have presented a certificate from a physician recognized by the board as competent for the purpose of setting forth that said applicant is neither mentally nor physically disqualified by any

chronic or acute physical defect from successfully performing the duties of a teacher. Eligible lists properly classified containing the names of persons who have received licenses or certificates of qualification to teach and arranged as nearly as possible in the order of rank in standing shall be kept in the office of the superintendent of schools and shall be open to inspection by members of the Board of Education, associate and district superintendents and sectional school boards. Except as superintendent of schools, associate superintendent, district superintendent or director of a special branch or as principal or teacher in a training school, normal school, high school or manual training school, or in the case of promotion or transfer from any position to another or higher position, no person shall be appointed to any educational position whose name does not appear among the three highest names upon the proper eligible list, provided that no teacher now in position in any city of the first class shall be displaced by the provisions of this section.

### Superintendent of Buildings.

The superintendent of buildings shall give such security for the faithful performance of the duties of his office as the Board of Education shall prescribe. He shall be an engineer or architect of good standing in his profession, and shall be responsible for the condition and care of all school buildings and premises. He may appoint such deputies and other assistants as shall be authorized by the board. All plans for new school construction, additions or repairs shall be approved by the superintendent of buildings and the superintendent of schools before submission to the board for approval and passage. Janitors for buildings devoted to elementary education shall be appointed by the sectional school boards. Janitors for school buildings shall be appointed by the Board of Education. Said janitors shall receive such compensation as the board may determine, and shall discharge their duties under the direction and to the satisfaction of the superintendent of buildings.

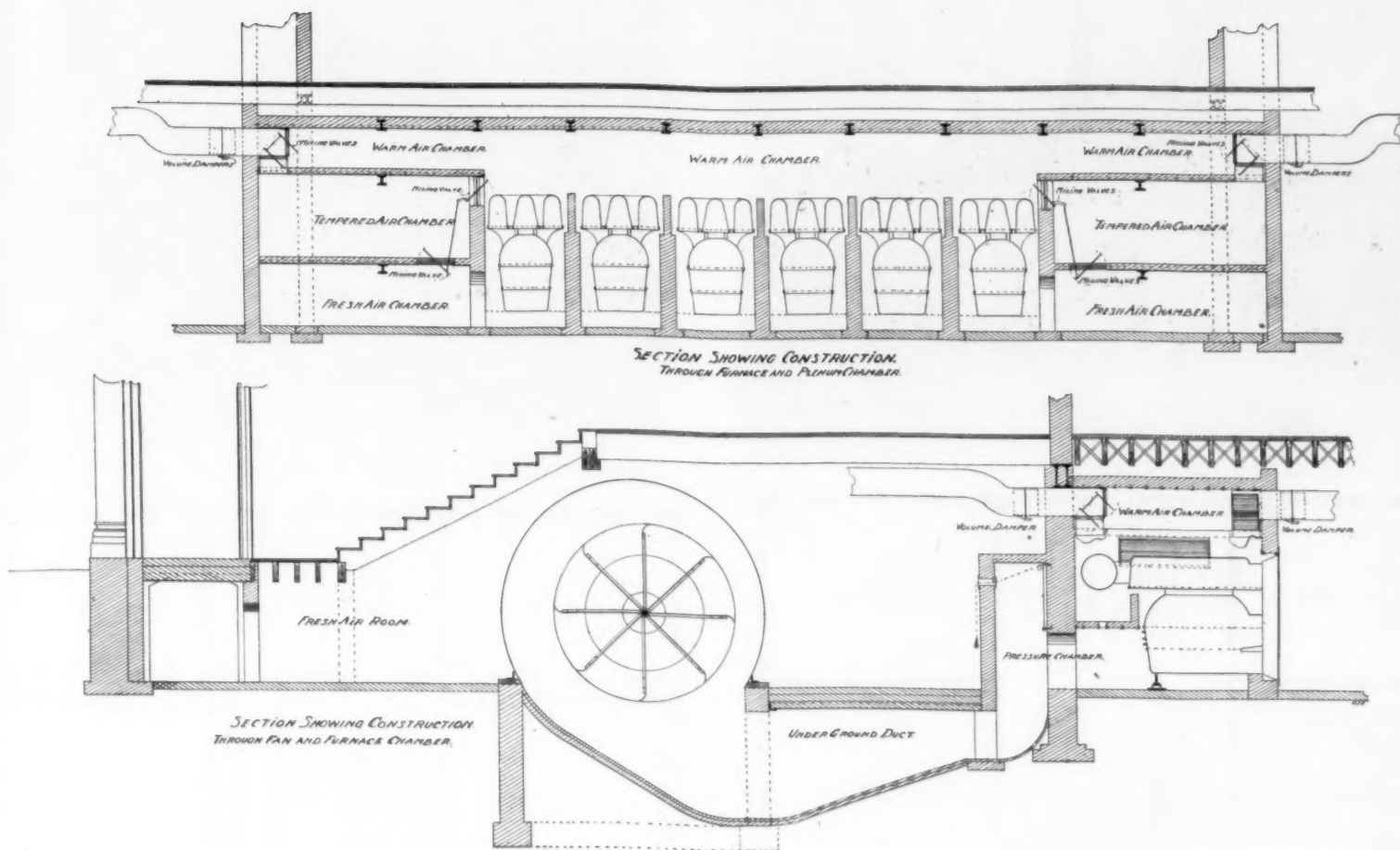
### Superintendent of Supplies.

The superintendent of supplies shall give such security for the faithful performance of the duties of his office as the board shall prescribe. He shall purchase and shall have the care and distribution of all supplies needed for the schools under such regulations as the board shall prescribe. He may appoint such assistants as shall be authorized by the board.

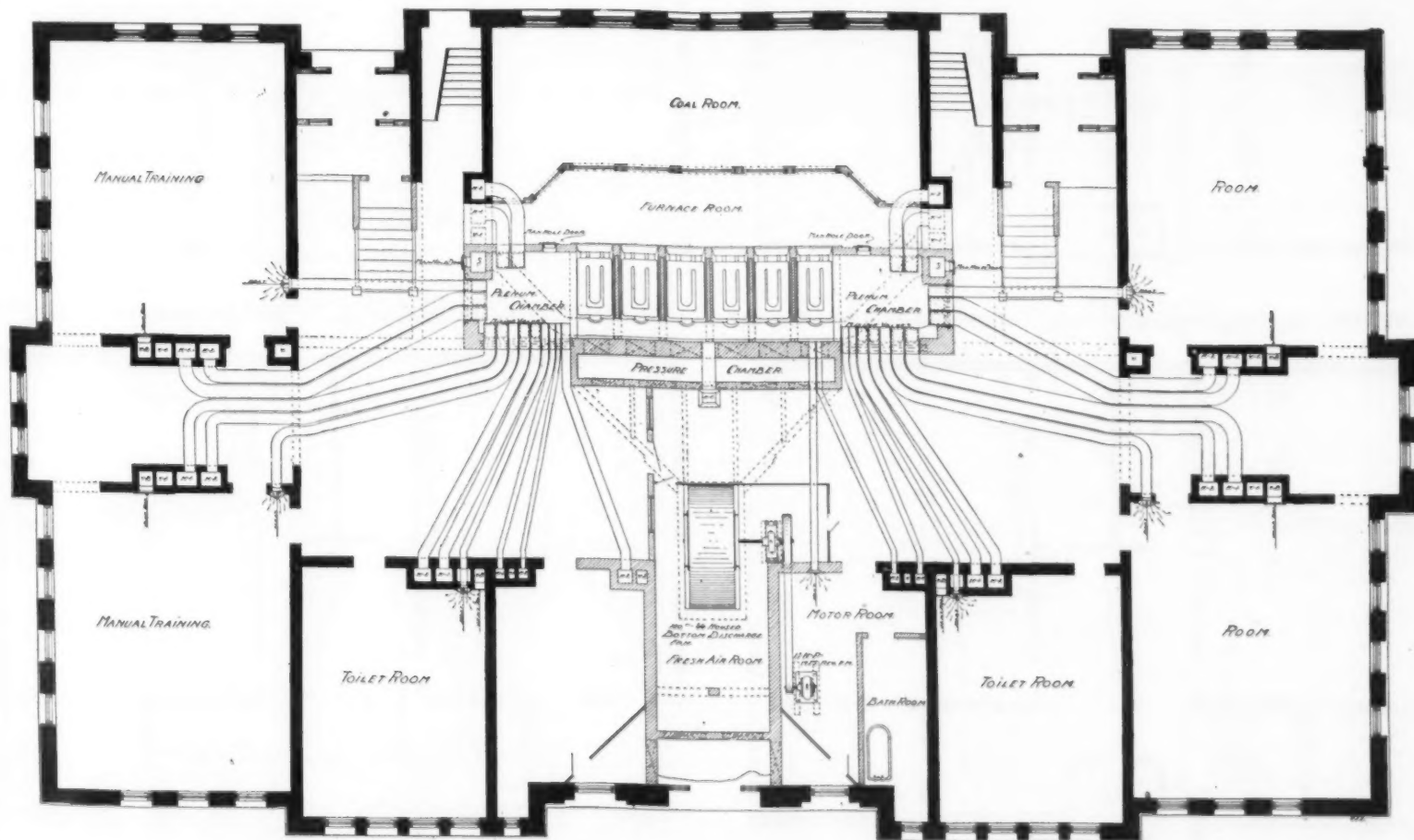
### A Five Mill Tax.

The City Council of Philadelphia shall annually appropriate a sum for school purposes which shall be not less than 5 mills on each dollar of the total assessment of real property of said school district upon which the tax rate for the succeeding year is fixed. The board shall have complete power to administer all money or moneys appropriated or available for its use as hereinbefore provided, and to enter into and execute contracts, and for these purposes shall possess the powers and privileges of a corporation of the first class. The title to all property now held or that may hereafter be acquired for school or educational purposes in Philadelphia shall be vested in said city, but all such property shall be under the exclusive care and control of the Board of Education.





Apparatus—Six Bryce Air-Blast Furnaces. One 160 inch A. B. C. Fan Driven by a 12 H. P. Electric Motor and Equipped with Johnson Automatic Regulation.



HEATING PLANT OF BASEMENT.

Heating and Ventilating Plant of the New McKinley School, Muncie, Ind.

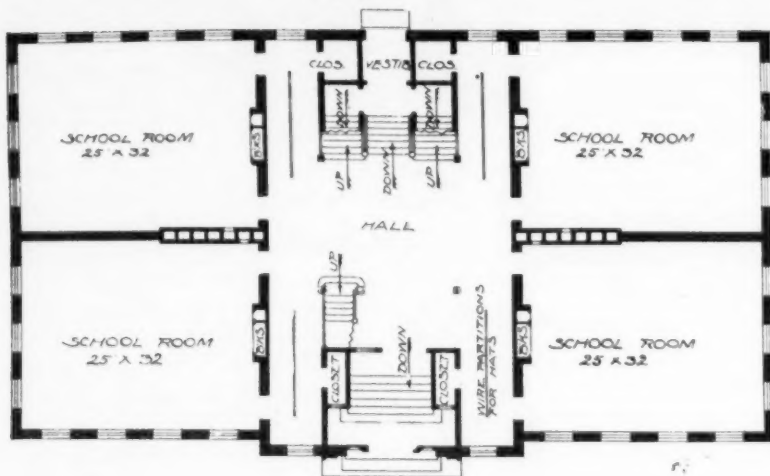
Grindle & Keelor, Architects, Muncie, Indiana. Installed by the Bryce Heating and Ventilating Co., Toledo, Ohio.



COLUMBIA SCHOOL, SEATTLE, WASHINGTON.  
Front portion new, right hand half remodeled.  
James Stephen, Architect.

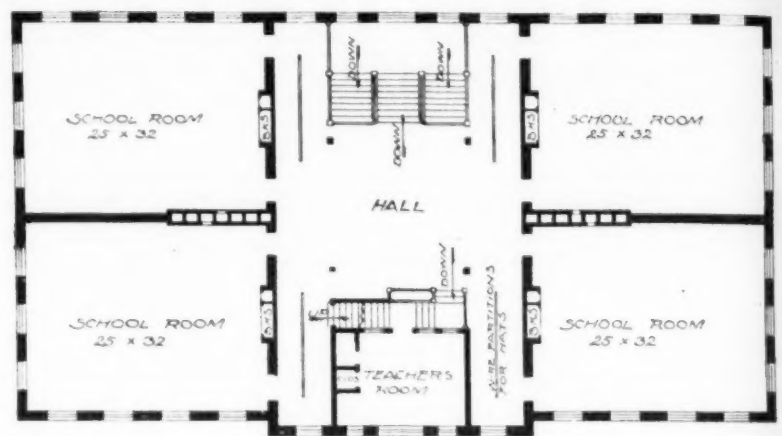


MODEL DESIGN FOR SCHOOL BUILDING.  
F. M. Schippel, Architect, Mankato, Minn.

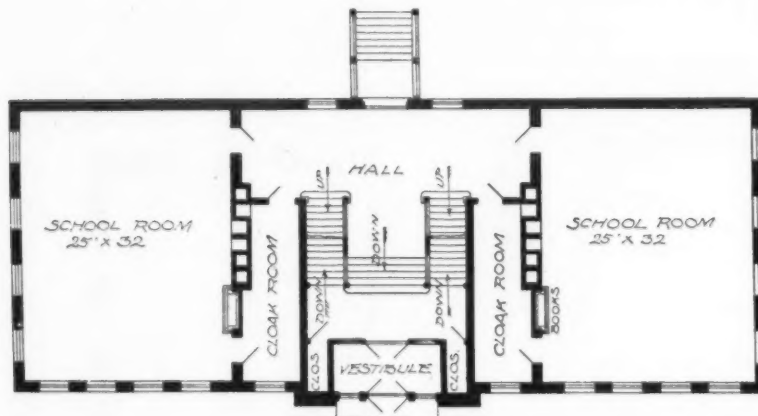


FIRST FLOOR PLAN.

Floor Plans, New Hawthorne School, Woodbine, Cook County, Ill. Geo. Ashby, Architect.

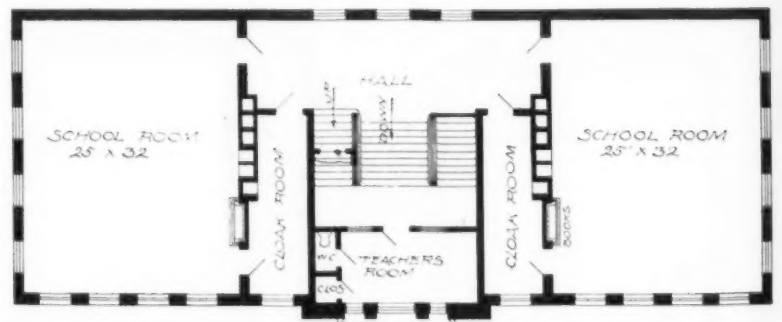


SECOND FLOOR PLAN.

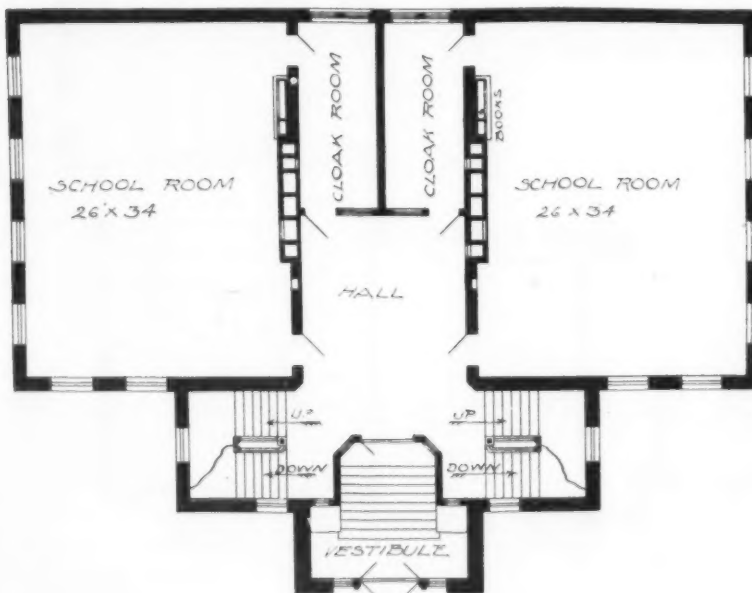


FIRST FLOOR PLAN.

Floor Plans, New School Building, Melrose Park, Cook County, Ill. Four Room plan so arranged that four more may be added. Geo. W. Ashby, Architect.

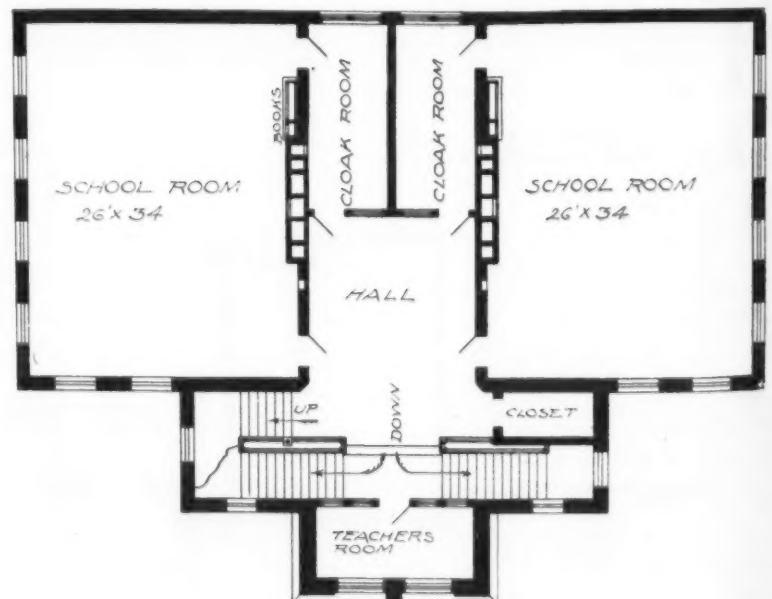


SECOND FLOOR PLAN.



FIRST FLOOR PLAN.

Floor Plans, New School at Homewood, Cook County, Illinois. Four room building. Geo. W. Ashby, Architect.

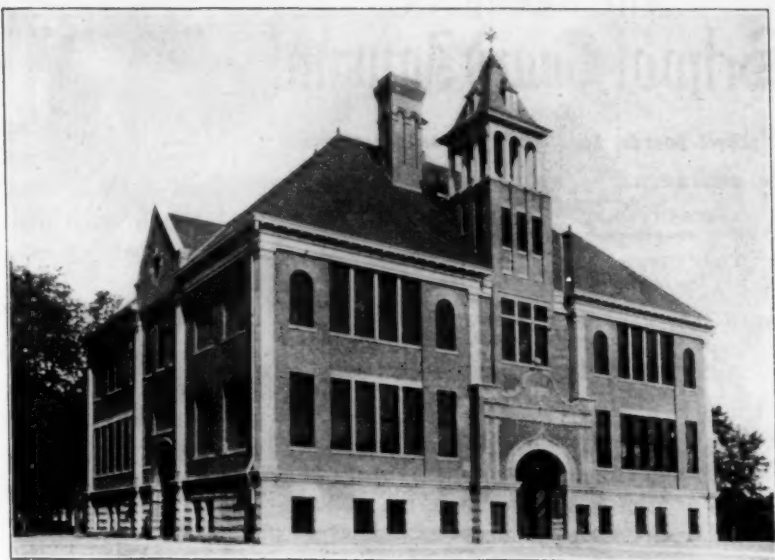


SECOND FLOOR PLAN.

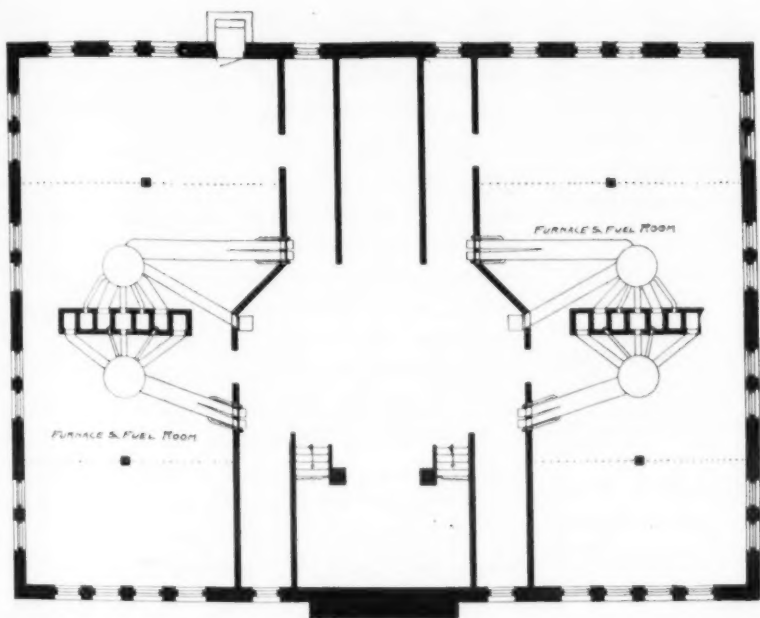




LAFAYETTE HIGH SCHOOL, BUFFALO N. Y.  
Esenwein & Johnson, Architects.



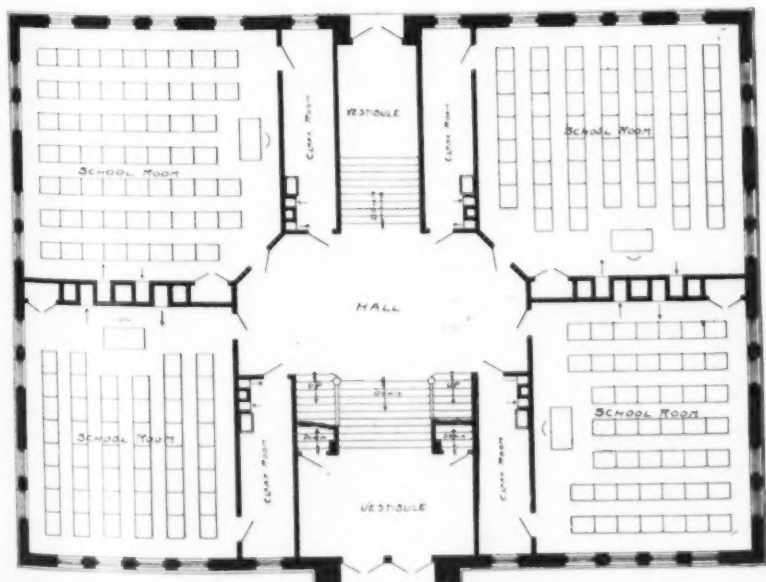
NEW SCHOOL BUILDING, STRYKER, O.  
W. H. Powers, Architect.



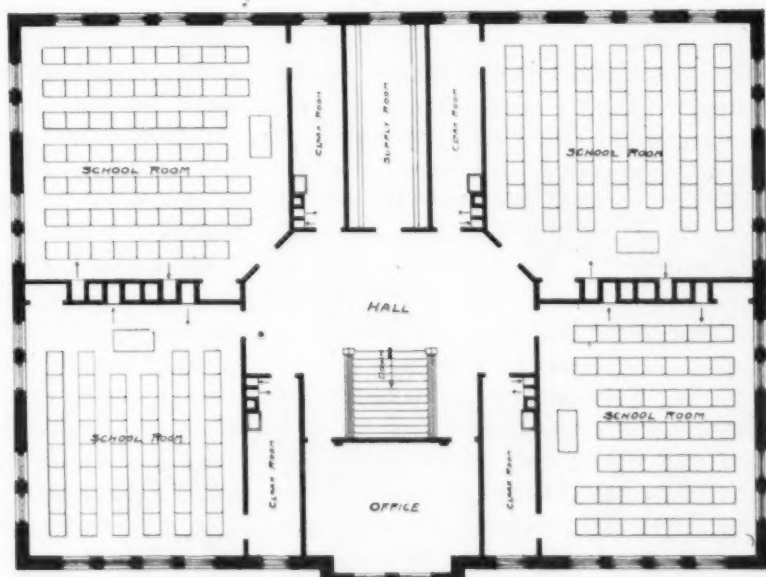
BASEMENT PLAN, NEW SCHOOL, JEWETT, O.  
Charles Henry & Sons, Architects, Akron, O.



NEW SCHOOL HOUSE, JEWETT, O.  
Charles Henry & Sons, Akron, O.  
Eight Rooms. Cost without heating apparatus, \$13,900.



FIRST FLOOR PLAN  
SCALE 1/8"=1'-0"  
FIRST FLOOR PLAN, NEW SCHOOL, JEWETT, O.  
Charles Henry & Sons, Architects, Akron, O.



SECOND FLOOR PLAN  
SCALE 1/8"=1'-0"  
SECOND FLOOR PLAN, NEW SCHOOL, JEWETT, O.  
Charles Henry & Sons, Architects, Akron, O.

# THE AMERICAN School Board Journal

DEVOTED TO

School Boards, School Officials and Teachers.

WM. GEO. BRUCE, Editor and Publisher.

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## A TYPE OF SCHOOL DIRECTOR.

There is to be found a type of school director in every city, town and village of the land who manages to attract attention to himself by a wanton attack upon the superintendent. He belongs to that class of citizens who are habitually, instinctively and chronically "ferniest the government."

This type of school director has some ability as a talker, has probably gained some local distinction in business, or some standing in the community as a physician or a lawyer. Consequently he has at least a small constituency or following. He carries the air of wisdom in all that he says and does, makes a mountain out of a mole hill with dexterity, and can always show beyond the peradventure of a doubt that the superintendent is an ass.

The one great mistake that men of this stamp make lies in a failure to appreciate that opposition to the superintendent really means opposition to the school system, and that opposition to the welfare of the school system means a gross violation of the oath of office.

If opposition to a superintendent is at all warranted, the time and place to manifest it is when his re-election is before the board. In the interim the superintendent must be encouraged in every laudable undertaking and protected against every unjust criticism. The individual member of the school board may differ with the superintendent as to policies, or may disapprove some of his methods, but bickering, belittling and back biting are never excusable. There is nothing more damaging to the good discipline of the schools than cheap curbstome oratory or the dramatic denunciation directed against the superintendent.

The school director who cannot see the function of his office clearly enough to know that any traducing of the superintendent tends to undermine his influence over the schools, is a public nuisance. He has no moral right to a seat in the school board and should resign.

Superintendents and principals are human and subject to the failings of all men. Some are weak, some mediocre, some strong. All require the enthusiastic co-operation of the school board; all require sympathetic encouragement; all require the good will of the public and the press. But, no one is so strong that he can do his best amid menacing eyes, conscious of the intriguer, the obstructionist, the trouble-brewer.

The educational interest of the child must be the center thought of school officialism at all times, and to the end that this interest may

be subserved in the largest measure the superintendent must have the loyal support of the school board, and each and every member thereof.

Loyalty to the cause of popular education is the first and most essential ingredient of school board service. This implies primarily a high minded and unselfish support of the educational factors of the school system. The antagonistic school director, be he open or under cover in his efforts, is positively disloyal to the trust imposed to him. He should be squelched.

## ADVANCED SCHOOL EQUIPMENT.

There are those who believe that the ideal in school house equipment has not been reached. Adjustable school desks have reached perfection. No class room is deemed strictly modern without them. Adjustable wall maps, adjustable window curtains, pendant globes, dustless crayons, dustless floor brushes, etc., etc.—all these things are regarded as essentials to an up to date school house.

Those who look for still greater perfection, primarily look for large class rooms and small classes in which pupils may move about more freely. The desks and seats, while adjustable in character, are to be movable rather than stationary. In brief, the entire equipment is to be such as to afford the greatest freedom in the movements of the pupils.

While this ideal arrangement would seem most desirable it is doubtful whether it can be inaugurated in the average schoolhouse of the land. The amount of money devoted to educational purposes compared with that used for other local governmental purposes is quite liberal. The ideal school proposition would unquestionably double the cost of popular education. Hence, it is still among the things which are in the remote future.

## WHAT THE SCHOOLS ARE FOR.

The fad or reform element of a community will never fail to pester its school board with some movement whereby the schools are to be called upon for assistance. In other words the schools are looked upon as a sort of clearing house for all the benevolent, charitable and patriotic movements of the day.

The school board at Portland, Oregon, was urged not long ago to lend the use of the schools for a movement to beautify the city. It was also urged to order the school children to provide lunches for a visiting company of soldiers.

The school board wisely declined. It held that the public schools are maintained for a specific purpose. This purpose does not comprehend the formation or indorsement of juvenile boards or societies for any purpose whatever. Certainly it does not comprehend invasion of the kitchens and larders of patrons with a demand upon the family supplies, even for a most worthy purpose.

Employees in any business, or those to whom any special interests are delegated, are discharged of all obligation when they have faithfully met the requirements of such business or interests. The function of the school

is to educate the child. Reform movements, however desirable they may be, must be left to other factors.

## THE CRY OF "FADS."

The cry of "fire in a crowd can raise no greater stampede than a cry of "fads" in a school system.

Recently some one connected with the school board at New York pointed out that too many frills were indulged in at the expense of the fundamentals. Immediately everybody remembered every flaw he ever heard of in the products of the schools, and "new fangled methods" had to go.

The discussions which followed would fill a year's volume of this journal, which if simmered down to a paragraph merely mean the oft repeated contest between the progressive and the conservative elements.

Superintendent Maxwell and his assistants are educational experts with progressive ideas and methods. The controlling element of the board is conservative. Conservatism has its freak tendencies just as progressive labors have. The school board yielded to the freak tendency—and that tells the whole story.

## ELEVATING COMMERCIAL SCHOOLS.

The efforts of Dr. H. M. Rowe of Baltimore, Md., in bringing about a movement designed to elevate and strengthen the commercial colleges of the country give promise of yielding desirable results.

The plans which were worked out a few years ago have taken definite form in the recent organization at Washington of the American Commercial Schools Institution.

The Board of Trustees of the new organization consists of R. C. Spencer, Milwaukee, Wis., George P. Lord, Salem, Mass., Enos Spencer, Louisville, Ky., John J. Eagan, Hoboken, N. J., H. M. Rowe, Baltimore, Md., James C. Monaghan, Washington, D. C., M. Miller, New York, N. Y., and James B. Howard, Cincinnati, Ohio. The board elected officers as follows: Dr. H. M. Rowe, president; R. C. Spencer, vice-president; John J. Eagan, secretary, and Enos Spencer, treasurer.

For the present the Institution will confine itself principally to establishing jurisdiction over the private schools through contracts of affiliation, and to organizing courses of study for commercial teachers. Already a sufficient number of schools have signified their intention to affiliate with the Institution to insure its success. Some idea of just what this means may be had when it is realized that there are between fifteen hundred and two thousand private commercial schools in the United States with an annual attendance of from two to three hundred thousand students. From four to five thousand commercial teachers are employed. There are more students in attendance at the private schools than in all the higher colleges and universities.

From the great interest which has been manifested by leading Manufacturers' Associations, Chambers of Commerce and business men it is believed that ample funds will



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The Cleveland





The cause of and the remedy against strikes among pupils, as interpreted by Chicago cartoonists.



A new menace to the public schools which has broken out at Dunham, Maine.

be secured to properly endow the Institution is so original and the place it is to occupy in the educational field is so unique and distinctive that it is attracting unusual attention. Of course it will require several years before the full usefulness of the Institution will be manifested.

Committees are now at work on courses of study, and the actual work of the Institution will begin as soon as possible after the next meeting of the board of trustees, which will be held at Asbury Park, during the meeting of the N. E. A., in July.

It is the ultimate purpose of the organization directly or indirectly, to assume jurisdiction over commercial and industrial education not only in private schools but in public and semi-public schools as well. A Dean and permanent officers will be selected as soon as the organization has progressed sufficiently.

#### PROGRESSIVE BOARDS.

Sometime ago the board of education at Grand Rapids, Mich., placed the Book Trust upon a black list for resorting to corrupt methods in attempting to secure text book adoptions in that city. The board has persistently held to its policy to do no business with the trust.

The school board at Toledo, O., which went

into office at the beginning of the year is made up of high class men and women. It was intimated earlier in the year by those unfamiliar with the character of the board that it might yield to school book influences. The recent action, however, taken by the board in securing a superintendent has set at rest all suspicion.

The board has refused to recognize any applicant for the superintendency recommended by the Trust and has appointed a committee to go out and find a man who is absolutely untainted.

The citizens of Spokane voted an increase in the city taxes in order to provide an increase in the salary of the public school teachers. The school board promptly raised the salary of the supervisors and superintendent but has increased the salary of such teachers as it had placed on a newly instituted merit list. Severe criticism of this procedure has been voiced by the press and the people.

#### "SANDFORDISM," A MENACE TO THE SCHOOLS.

New England, fearing that a weird and strange religious band is undermining its public school system, is fighting one of the most unique battles of recent years.

The crater of the religious volcano over which New England lies is at Durham, Me., the home of the Holy Ghost and Us Society, a band of religionists who have built up a holy community as prosperous as any in America and more unique and disturbing than any other.

The Holy Ghost and Us band has already secured control of the schools of the community, and by political jugglery is compelling the state to pay the salaries of teachers who instruct their wards that all of this life is allowed us for prayer, and that all desires, material and immaterial, are gratified through prayer, and not through work. Against such teachings there has come about a popular uprising. At the polls recently the Rev. Frank W. Sanford, the head of the religious band, who says he is Elijah, elected a follower a member of the school committee. His strength was too great to be overcome by the tax-payers of the committee. Following the choice of a Shilohite, as the Holy Ghosters are called, came the decision of the supervisor to pay seven Shilohite teachers their salaries from the public funds.

Politically the Holy Ghost and Us Society has proved itself stronger than the community, and all Maine and all her sister states in New England have arisen to attempt by law or other process to curb the rapidly growing influence of the Shilohites.



The Cleveland School Board seeks a Superintendent of Schools.



Joseph Jefferson, the friend of American school children, is no more.



The over-crowded-school evil prevails at Knoxville, Tennessee.



# School Architecture

## MODEL RURAL SCHOOLHOUSES.

WITH PLANS AND SPECIFICATIONS ISSUED BY THE STATE OF MISSOURI.



The State Department of Missouri, under the direction of Hon. W. T. Carrington, State Superintendent of Public Instruction, has prepared a perspective and floor plans of a model rural schoolhouse.

A model building erected in accordance with these plans was exhibited at the Louisiana Purchase exposition last year. The plans are intended to embody all the best ideas as to simplicity in design, practicability in arrangement and in sanitation. The cost of construction is about \$400 more than is ordinarily expended upon a rural school building.

The plans and specifications have been prepared under the direction of competent architects and the assurance is given by the department that they may be relied upon for accuracy and usefulness.

We present herewith a complete set of the floor plans, showing also an illustration of the completed building together with pneumatic water pump.

The specifications which we publish in full cover every phase of construction and will prove most serviceable in all parts of the country.

### DRAWINGS AND GENERAL CONDITIONS.

The several drawings herein referred to, are as follows and consist of:

- Plan of foundation and basement.
- Plan of floor arrangement.
- Plan of roof.
- Transverse section.
- Longitudinal section.
- Front and side elevations.

The several drawings must be carefully followed according to their scale, and all notes, figures and explanations wherever they appear upon the drawings, must be carefully followed as they, with the drawings and specifications, are all part of the contract.

The contractor shall make no alterations in the drawings or specifications. The contractor to furnish all labor and materials, scaffolding, etc., and everything needful for the completion of the work. Should the contractor introduce any materials or workmanship other than the kind specified, it shall be removed at the contractor's expense at any time during the progress of the work. All work must be executed in a good, substantial and workmanlike manner, and nothing to be omitted which is necessarily connected with the proper completion of the work.

**Excavations.**—Do all necessary excavating required for the basement and all piers or other foundations, as shown and required by the drawings.

All heights must be taken from a grade stake.

**Dig the banks in excavating** 6 inches beyond outside line of stone walls.

**Grading.**—Fill in around and pack the earth against the walls after the mortar is dry, and level it off as directed by superintendent.

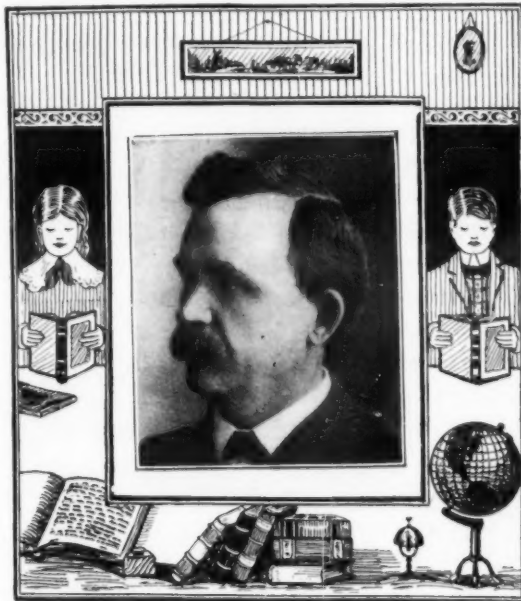
**Footings.**—Lay down footings un-

der all the walls of the building of flat, well bedded stone not less than 8 inches thick and to project 4 inches on each side of the walls above. This footing course to be composed of large stones, each filling the course in width and height and fitted close together.

Joints to be flushed with spawls and cement mortar.

**Foundations.**—Properly lay up foundation and basement walls 16 inches in thickness, with good, flat building stone, laid on their natural bed, and well bonded, laid in clean sharp sand and Fort Scott Cement mortar, in parts of one of cement to two of sand, laid to a line on both faces and properly flushed and pointed at completion. Lay down in like manner substantial foundations under the chimney, porch piers and exterior steps.

**Underpinning.**—From the top of foundation walls at grade level, lay the underpinning up



HON. W. T. CARRINGTON,  
State Superintendent of Public Instruction  
Jefferson City, Missouri.



THE MODEL COUNTRY SCHOOLHOUSE.  
Exhibited at the World's Fair, St. Louis, Mo., last year.

in height, as shown by the drawings, with two courses of 8 inch lime stone range pitch faced, laid to a line, with close joints and to be pointed at completion with raised joint of Portland cement mortar.

The window sill to be of lime stone properly cut and set in place where shown on foundation plan.

**Chimney.**—Build the chimney to correspond with the drawings, using hard burned brick laid in lime mortar, as per size figured on drawings. Flue to be perfectly straight and true, and uniform in size throughout and made smooth, with cut joints on the inside. Top out above the roof with select red brick, laid in white mortar and properly cleaned down on completion.

Furnish and set in the brick work of flue for furnace smoke pipe an 8-inch black iron thimble. The smoke pipe from furnace to be made of No. 14 stack steel, properly supported and anchored in place.

**Lathing.**—All walls, partitions and ceilings throughout the building to be lathed with No. 1 white pine laths, full thickness, laid on a quarter of an inch apart, with 4 nailings to each lath, joints broken every 12 inches. Under no circumstances must the laths stop and form long vertical joints, neither permit any laths to run through partitions behind the studding from one room to another. All angles must be thoroughly spiked together before lathing.

**Plastering.**—All walls, partitions and ceilings throughout the building to be plastered with Aggatite or Acme Cement Plaster, properly put on and applied with sufficient force to secure strong clinches, and to be mixed according to given directions.

Level up and float the brown coat and make it true and straight at all points, angles and openings. All corners and angles to be made perfectly straight and true, and finished in a workmanlike manner. All lathing and plastering to extend down to the floor. All walls to be straight and plumb and even with the grounds.

Leave all the floors broom clean; do all the necessary mending and patching after the workmen, and leave everything in a perfect state.

**Timber.**—The whole of the timber used in and throughout this building to be well seasoned and free from shakes, knots, or other imperfections; impairing its strength and durability.

Dimension stuff for joists, studs, rafters, etc., to be No. 2 yellow pine. All exterior finish lumber for cornices, casings, base and other finish to be of white pine, "C" select.

**Framing.**—Timber must be prepared and framed according to the plans, sections and details. All joists to be placed with the crowning edge upwards. The figuring of heights of stories on the sectional drawing and figures on plans for interior work are for the dimensions in the clear. All joists to be spiked together at each end and to each other where



they come together, and to all bearings.

**Bridging.**—Bridge the floor joists through the center of each room with two rows of 1x3-inch stuff properly cut in between the joists and nailed at each end with two 8-penny nails.

**Headers and Trimmers.**—All headers and trimmers to be properly framed and spiked together, leaving all openings of sufficient size for the finish of stairs, chimney, etc.

**Size of Timbers.**—Sills to be framed as shown by the drawings with 2x8-inch plate below, outside members 2x10-inch, and 2x6-inch plate on top. Floor joists to be 2x10-inch, placed 16 inches from centers; ceiling joists 2x10, placed 16 inches from centers; partitions and other studding will be 2x6, placed 16 inches on cen-

ters. Corner posts built of two pieces of 2x6, with a 2x8 between, thoroughly spiked together, roof rafters to be 2x6, 16 inches from centers, wall plates 2x6 double thickness, porch sills to be 4x6 and properly framed into main sills, porch joists 2x6, 16 inches from centers, porch rafters and ceiling joists 2x6, 16 inch centers, porch plates, posts, etc., to be made according to the general drawings. All door studs to be set double. All openings over three feet in width to have double headers and thoroughly trussed overhead. All angles to be framed solid by spiking studs together. Porch to be ceiled overhead with five-eighths-inch yellow pine ceiling.

**Exterior Frame Work.**—Cover the frame of the building with No. 2 yellow pine, ship lap

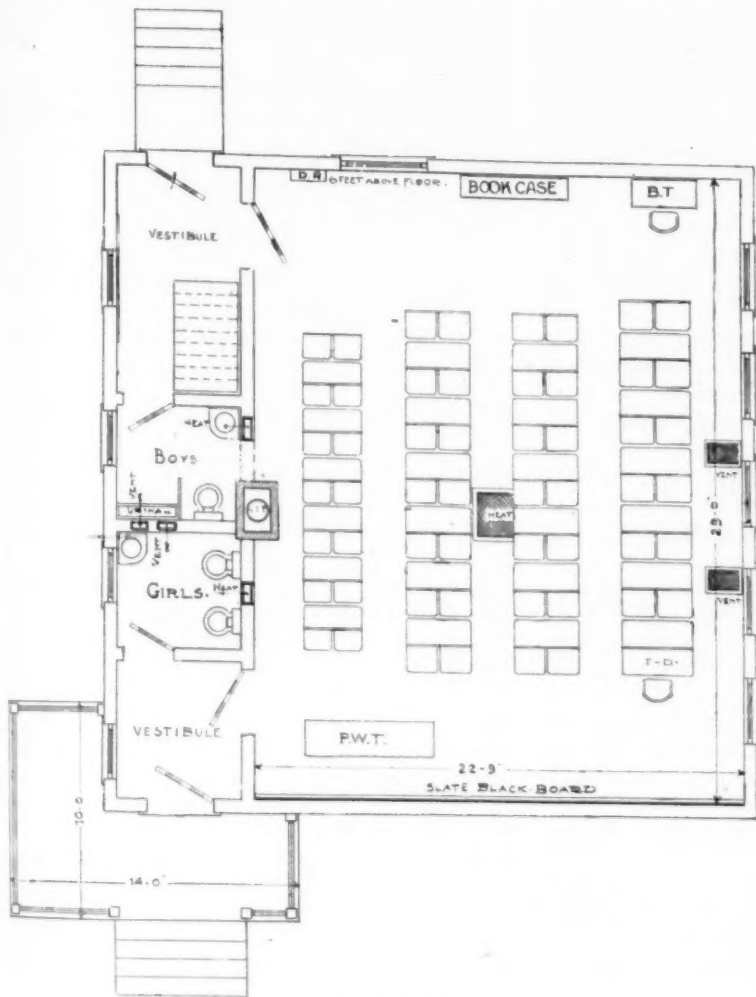
boards not over 10 inches in width, nailing through each edge into every bearing, these boards to be placed horizontally on the frame.

**Siding.**—To be "C" select white pine, 6 inches wide, with 4½-inch exposed to the weather. All joints to be closely fitted against corner boards, casings, etc., and nailed to the walls with 6-penny wire nails.

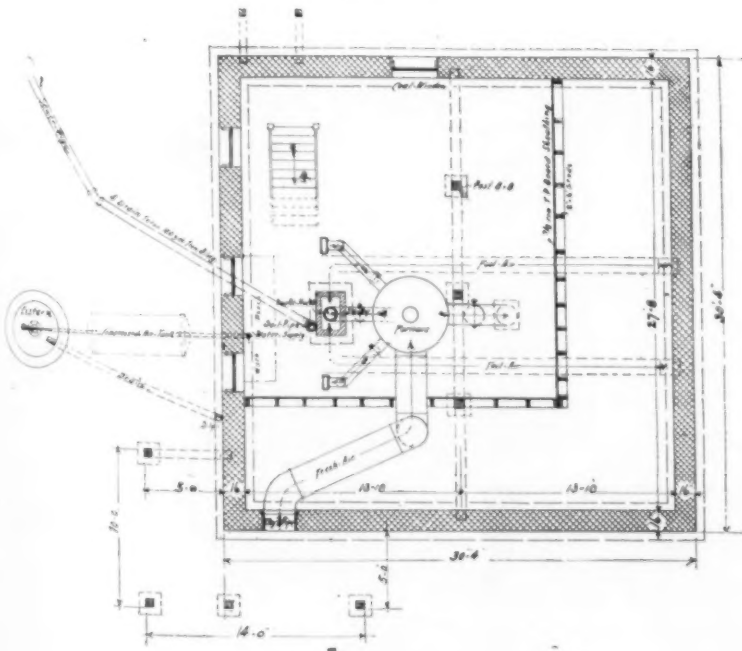
**Corner Boards.**—Cornice, bands, corner boards, water tables, etc., will be made as shown by elevations and sections.

**Roofing.**—The carpenter shall frame and construct the roof according to the drawings, in a thorough manner. The rafters to project the walls as shown for cornices and gutters.

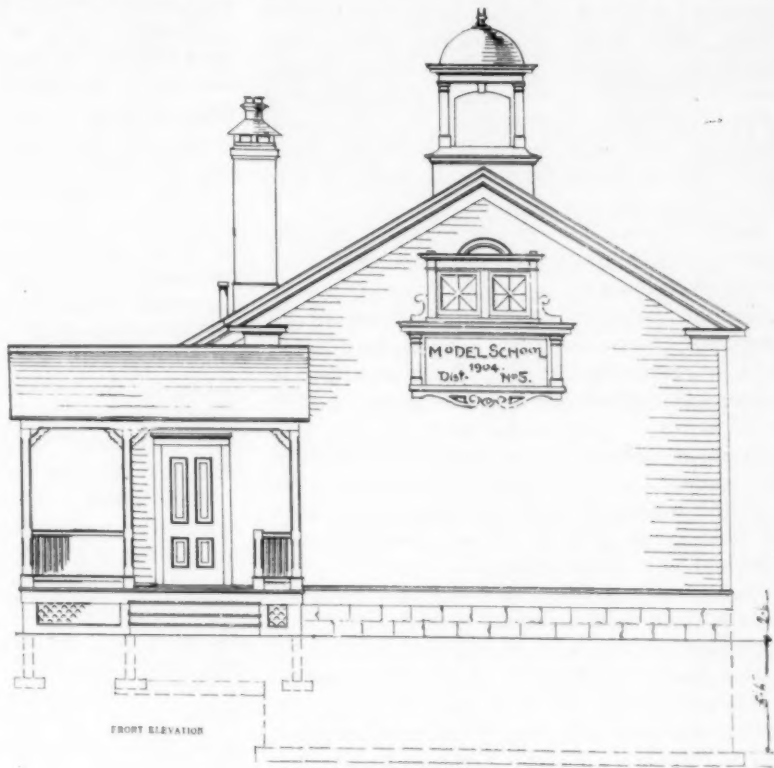
The gutters to be graded on the inside so as to throw the water to the points indicated for the location of the down spouts.



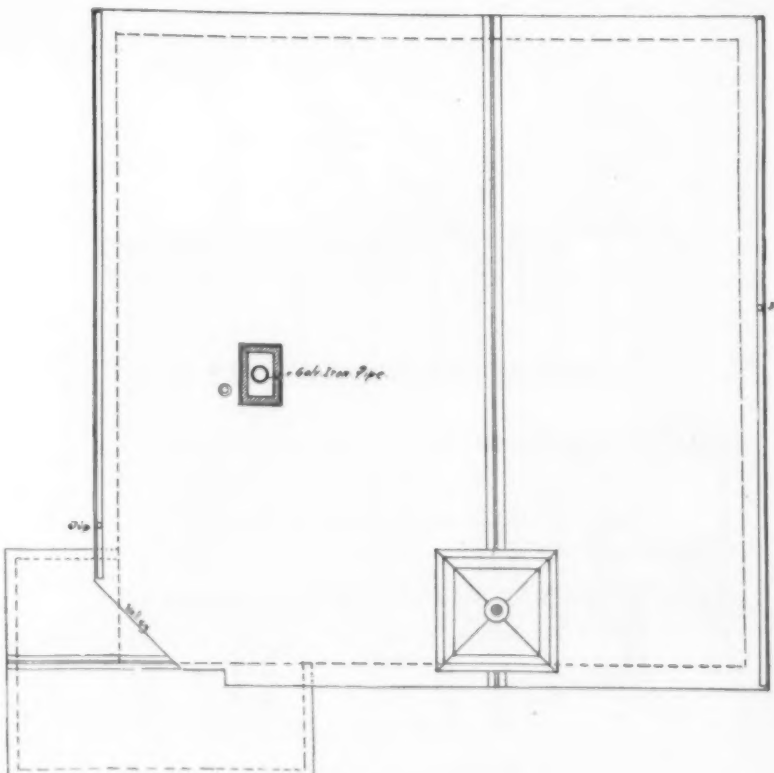
FLOOR PLAN.



BASEMENT PLAN.



FRONT ELEVATION.



ROOF PLAN.

MODEL PLANS FOR RURAL SCHOOLHOUSES.

For shingling; put on horizontally,  $\frac{3}{4}$ -inch yellow pine strips 7 inches from centers, joints broken and nailed to each bearing with 10-penny nails.

**Shingles.**—Shingles to be put on in the best manner, properly laid, joints broken and nailed with two 3-penny coarse cut nails, to stand away from all angles and valleys the proper distance. These shingles to be of the best quality red cedar, six to 2 inches and laid  $4\frac{1}{2}$  inches to the weather. Ridges to be covered with 1x6 white pine boards nailed with 10-penny nails.

**Window Frames.**—All window frames for insertion in the woodwork to be made with the outside casing 1x4 $\frac{1}{2}$  inches, and pulley stiles  $\frac{3}{4}$  inch thick, properly housed at the head and sills and to have  $\frac{3}{4}$ -inch sub sill, bottom sills to be made of 2x8-inch white pine. All frames to have parting strips and blind stops set back the proper distance for outside blinds. All frames to have 2-inch lathe turned sash pulleys, bronze face, and to have pockets for sash weights. Single sash in basement to have 3-inch steel butts and proper fasteners. Transoms to be as shown on drawings. All sash to be 1 $\frac{1}{2}$  inches in thickness. The basement frames to be made of 2x10 clear white oak.

**Inside Work.**—The carpenter must run the flooring closely around all the walls, closing all spaces completely.

**Grounds.**—Put on grounds for finish of all doors, before the plasterer. All these grounds to be set perfectly straight, plumb and true to a line, and for lath work, not to exceed  $\frac{3}{8}$  inch in thickness.

**Flooring.**—Floors to be laid with 1x4-inch Star yellow pine, secret nailed to every joist, well driven together and laid close to the wall. All flooring to be tongued and grooved, carefully laid with joints broken.

**Finish.**—All inside finish will be made of strictly clear, well seasoned yellow pine. All doors that are marked for glass in upper panels will be glazed with D. S. A. glass. All transoms will be glazed with D. S. A. glass and hung at the top with 2x2-inch brass butts and provided with a Wollensack Patent Transom Lifter.

**Blackboards.**—Furnish and set in place where shown No. 1 Slate Blackboards four feet in height and finished with 2-inch lip mould on top and 4-inch chalk mould below.

**Size of Doors.**—To be as marked on floor plans for width, height and thickness. Hang all doors throughout with loose joint, bronze

plate butts 3 $\frac{1}{2}$ x3 $\frac{1}{2}$  inches. Front door to have three butts 4 $\frac{1}{2}$ x4 $\frac{1}{2}$  inches.

**Locks.**—The main entrance door to have 5-inch mortise bronze faced locks with two keys. All other doors to have 3 $\frac{1}{2}$ x3 $\frac{1}{2}$ -inch mortise locks.

**Sash and Windows.**—All windows to be cased to correspond with the doors, and to be finished with a rebated and moulded stool and apron worked and moulded as shown. Sash to be of the best clear white pine with apron mould sash bar and weather lipped meeting rails. All sash to be 1 $\frac{1}{2}$  inches in thickness.

Every double hung window in the building to have an Ives patent burglar proof sash lock on meeting rails, with bronze finish. Also provide a bronze bar handle lift for each window.

All glass throughout the building, except as otherwise specified, to be D. S. A. glass, and well bedded, tacked and puttied.

**Stairway.**—To be built where shown on the floor plans in the best and most substantial manner, and to be supported on rough carriages, cut from 2x12-inch joists. Stairs to have 1 $\frac{1}{2}$ -inch treads and treads to have nosing on front edge, and provided with 2-inch side hand rails.

**Toilet Rooms.**—To be fitted up with clear yellow pine, wainscot 4 feet high, with  $\frac{3}{4}$ -inch V. P. beaded ceiling and finished with 2 $\frac{1}{2}$ -inch lip mould, qr. round. Also put up four strong heavy coat hooks as directed.

Run wainscoting behind water closets. The schoolroom and vestibule to be wainscoted as shown by the section and finished in the same manner as specified for other wainscoting except that under blackboards, where chalk rail shall take the place of moulding.

**Angle Beads.**—To be placed on all corners as required to protect the angles of plastered walls, to be 3 feet 6 inches in length and 1 $\frac{1}{2}$  inches in diameter, to have ornamented turned heads.

**Painting.**—Furnish all materials and perform all labor for the full completion and proper painting of the building, cover all sap or knots in the exterior woodwork, with a coat of strong shellac before priming; putty up all woodwork smoothly before applying the last coat. On the outside work use for priming coat a mixture of one part of white lead and two parts of ochre ground in oil, mixed with pure boiled linseed oil.

**Exterior.**—Paint the exterior woodwork with three coats, the second and last coat to be pure white lead and boiled linseed oil, the lead to be used for this work must be of the best quality,

strictly pure Collier's white lead and boiled linseed oil.

The colors to be selected by the superintendent. Paint all the tin work with two coats of mineral roofing paint, the down spouts to be finished with trimming color same as used on the building.

**Interior.**—All the interior woodwork must be thoroughly cleaned off and filled with mineral filler, by rubbing thoroughly into the pores and wiped off while wet. Finish the woodwork with two coats of hard oil.

The painter must see that all woodwork is perfectly clean before filling. Putty all nail heads and other defects, using care to thoroughly match the putty in color with the woodwork and to sandpaper smooth and prepare all woodwork before applying the second coat. The painter to see that all spots are cleaned off the walls and glass, and leave everything in a perfect and finished state.

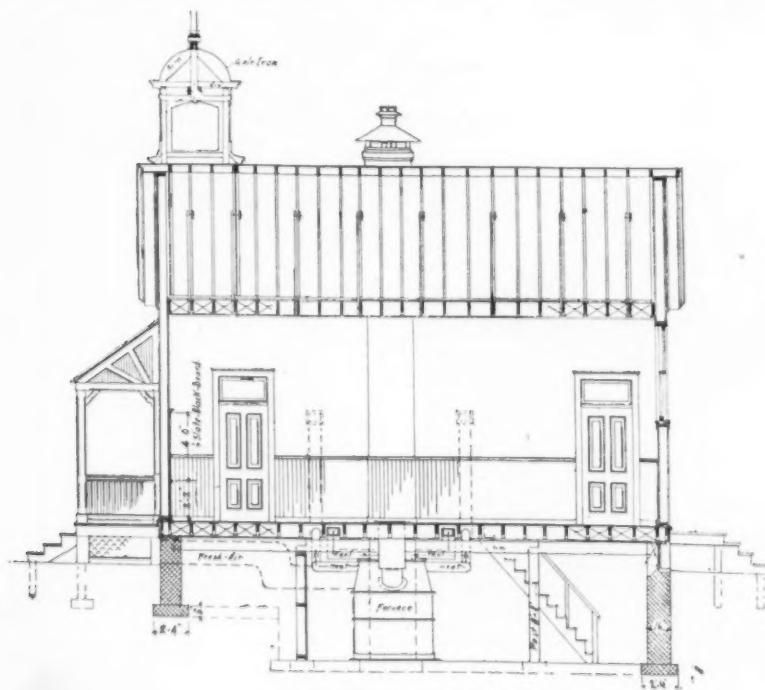
**Gutters and Valleys.**—For the gutters, valleys and down spouts and chimney caps use No. 26 galvanized iron and run the iron under the shingles at least 6 inches. The gutter to be riveted and soldered, and held in place with proper stays. Down spouts to be put up where indicated on plans, with all the necessary curves to bring the water to grade level, and there connect into the drain pipe.

All joints to be lapped, riveted and soldered tightly together.

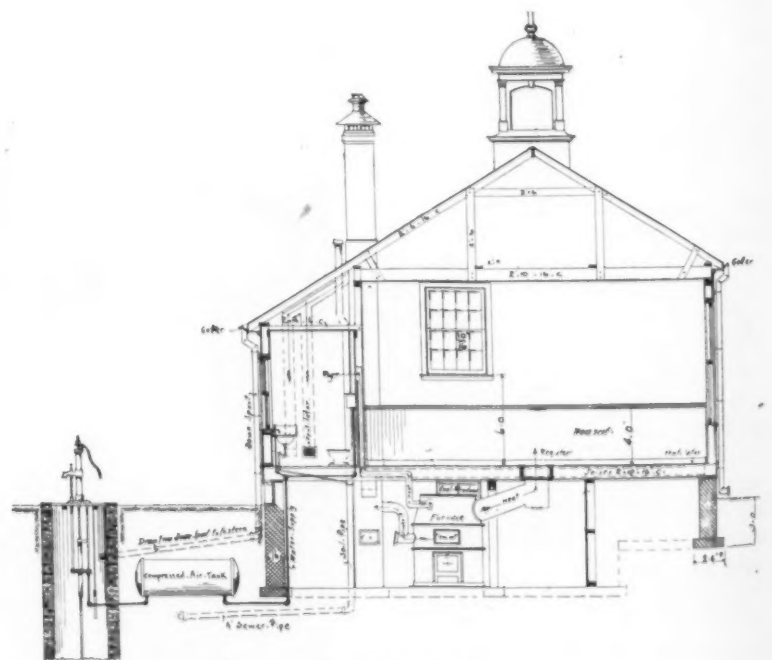
Down spouts to be thoroughly secured to the building, the sizes of leaders to be 3 inches. Valleys to be flashed and counter flashed in a thorough manner. Also furnish all the other flashing ready painted for the use of the carpenter to enable him to make all parts of porch and windows thoroughly water tight.

**Plumbing.**—Progressive manufacturers may be obtained to furnish all materials and perform all labor necessary for the putting up and completing system of domestic water works, and all the plumbing work in a good and thorough workmanlike manner, according to the drawings and these specifications. All cutting for the pipes will be done by the carpenter. All horizontal and vertical pipe connections to be made with iron hooks, braces or hangers. All cast iron pipes to be properly supported and secured and all joints calked with oakum and moulten lead.

All water pipes must be put up on 1-inch stripping, prepared by the carpenter, and all to



LONGITUDINAL SECTION.



TRANSVERSE SECTION.

MODEL PLANS FOR RURAL SCHOOLHOUSES.



be put up so that they can be got at at any time for examination. The sewer connection will be made as shown on foundation plan, and must have all joints cemented together. The pipe must have a fall of at least  $\frac{1}{4}$  inch to the foot.

All down spouts to be connected into the cistern as shown.

**Cast Iron Soil and Waste Pipe.**—Connect the drain with 4-inch cast iron pipe, continue up through the partition to toilet room and out through the roof, place a running trap in the main soil at the inside of the cellar wall, where it can be got at at any time to clean out.

**Water Supply.**—To be taken from cistern or well near building.

When pump and pneumatic tank are in cellar run  $\frac{1}{2}$ -inch galvanized iron pipe from pump to cistern, with foot valve on lower end. This pipe must be laid lower than freezing point. From the pump connect the pressure tank as shown. From the pressure tank run  $\frac{3}{4}$ -inch supply pipe to each fixture, as shown on plans. Leave out all necessary branches for the different works and place a  $\frac{3}{4}$ -inch round lever handle stop and waste cock in cellar to shut off when necessary. Care must be taken in grading this and all other pipes so that when water is turned off they will be drained perfectly dry.

**Pressure tank.**—Place near cellar (or at some other convenient place selected by the superintendent), 220-gal. wrought steel tank. Connections to be made from bottom of tank.

**Pump.**—Place in cistern where shown, or in basement, a force pump properly connected with cistern and pressure tank, place swinging check valve in pipe between the pump and tank. Provide all necessary shut-off and waste cocks so that all pipes may be drained.

**Urinals.**—Furnish and set in place in the boys' toilet room a 3-inch flushing rim urinal, enameled, supported on painted iron brackets, perforated brass flush pipes, on trap standard brass vent and clean-out plug all complete, automatic copper lined oak tank. Furnish all fixtures, fittings, cocks, traps and pipes of every description to make the job complete in every respect.

**Wash Basins.**—To be white enameled iron, supplied with water through lead pipe, basin to be wasted into nearest soil pipe, to have  $\frac{1}{2}$ -inch nickel plated bibs, lever handle, slabs to be counter sunk with moulded edges, and to have 7-inch moulded back.

**Water Closets.**—In toilet rooms to be provided and located as shown, and to have trap made

of porcelain in one piece with the closet. Closets to have a shut-off cock in the supply to control water to same. All pipes extending above roof must be thoroughly flashed with sheet lead.

**Bibs.**—All bibs throughout the building to be the very best quality nickel plated. All cut-off and waste cocks to be of brass.

**Furnace.**—Furnish and set in place in basement where shown a hot air furnace. Smoke pipe to be of No. 14 sheet steel and to extend from furnace to top of chimney as shown. All hot air pipes to be made of a good quality of tin, properly connected and supported, to be of the various sizes required for each room to be heated, and each to have a regulating damper.

All pipes to be run where shown on plans, with all the necessary angles, bends and other connections. Furnish and set in schoolroom registers of the required sizes for warm air, and also for foul air. All pipes must be thoroughly secured in place and everything furnished complete in every respect, including full set of firing tools.

The fresh air pipe to be made of galvanized iron and connected with small opening in foundation wall with wire screen over the opening.

#### Suggestions.

The force pump and air pressure tank may both be placed in the basement and connected with well or cistern by underground pipes.

If the air pressure tank is not placed in the basement, it should be buried deep enough to avoid any danger from freezing.

Several reliable contractors have given assurance that a schoolhouse can be built, according to these plans and specifications, in any rural community of Missouri, for less than \$1,200.

#### MEDICAL INSPECTION.

Topeka, Kan. The Board of Health has under consideration a system for the medical inspection of the schools.

The plan is to secure volunteers from among the physicians of the city to act as an inspection board. Each physician will be placed in charge of one school building. The physician will be expected to call at that school building every morning shortly after school opens. Every teacher will inspect the children in her own room as they come to their places, and if she sees any sign of contagious disease will immediately send the child to the principal's room, where the child will be isolated until the physician arrives. The physician will examine the child and decide whether the case is contagious.

If it is contagious the doctor will not prescribe the remedies but will simply send the child home.

It is thought that this method will result in much effective work in checking the spread of contagious diseases. At present the responsibility for sending children home is placed on the principal, and it is natural that mistakes be made. The tendency will be, it is thought, to cause the teachers to exercise more care in watching the condition of their scholars. If a scholar appears to be sick, the teacher, being on the watch for cases, will more readily detect it.

Chicago, Ill. The board of education has the following system of medical inspection of the schools under consideration:

That a medical inspection of the physical condition of the pupils and the sanitary conditions of the schools be made, a subcommittee being appointed to conduct it.

That the city be divided into twelve districts, each district under the supervision of a medical inspector, the inspectors to be physicians selected by civil service rules.

That the acts of the inspector be governed by the request of the superintendent of schools in investigating any case.

That emergency inspections be made where contagious diseases exist.

That the school principal be given the right to exclude from school any pupils suffering from the following diseases: Diphtheria, scarlet fever, measles, whooping cough, tonsilitis, chicken-pox, mumps, smallpox and tuberculosis.

That pupils be reinstated on the presentation of certificates from physicians.

That principals report any unsanitary conditions in schools.

That medical inspection made for defects of the eyes, ears, mouth, pharynx, nose, chest and skin, also general nutritional and structural diseases.

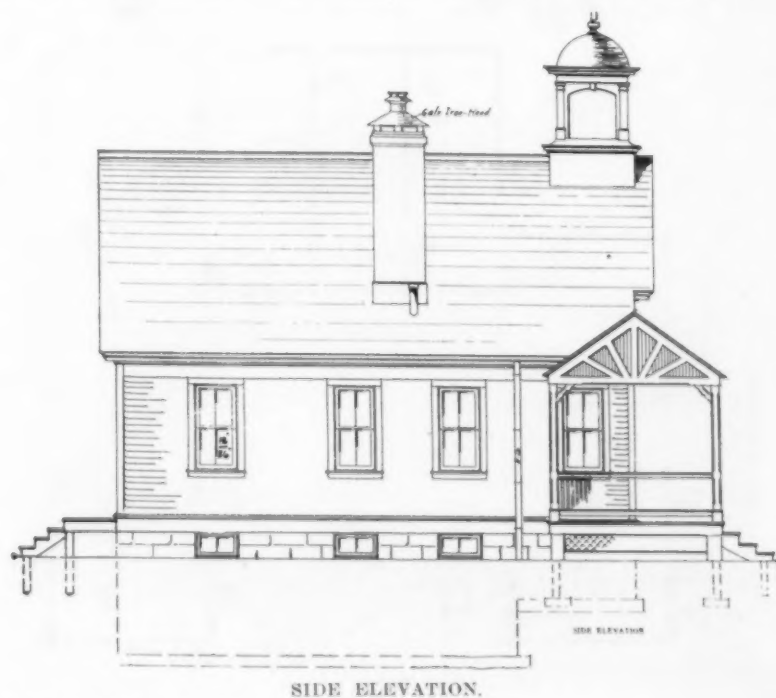
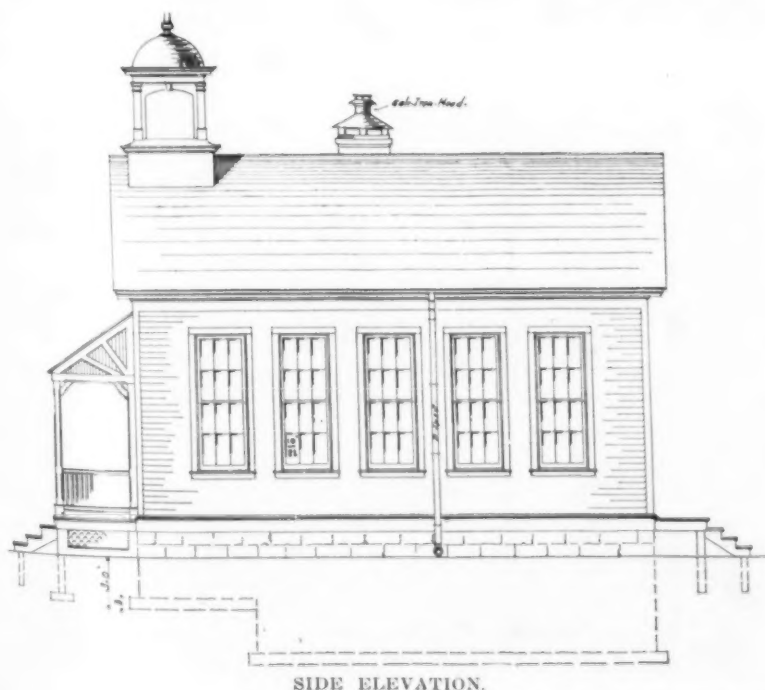
That inspectors be not permitted to undress pupils without consent of parents.

That a record of each inspection be kept by the inspectors and a copy to be furnished to the superintendent of schools and the school principal.

That parents be informed of any inspection, indigent pupils to be treated free of cost.

That medical inspectors be not allowed to treat pupils except in cases of emergency.

The pay of the medical inspector to be made according to the time he devotes to the inspection at a rate not to exceed \$50 a month for three hours' work each day.



MODEL PLANS FOR RURAL SCHOOLHOUSES.

**Building Many Schools.**

State Supt. J. H. Hinemon, of Arkansas, is greatly encouraged over the progress being made in the state in the erection of new schoolhouses, and points with pride to the record made in the past year of two new houses every three days. He says:

"There is a great deal of activity throughout Arkansas in providing better accommodations for the children of the state. A majority of school boards are careful to see that the new buildings are arranged with especial reference to the health and comfort of the children, care being taken to secure proper heating, lighting and ventilation. About a year ago the department of education issued a circular dealing with these features, and there have been frequent calls for this bulletin. Last year there were erected in the state about 275 school houses, ranging in value from \$150 to \$65,000."

**The New Camden, O., School.**

An illustration of this new school appears on page 3. The dimensions are 63 by 84 feet. It is built of red pressed brick, cement foundation and slate roof; has 8 rooms 22 by 30 feet and two rooms 22 by 34 feet, also superintendent's office and library. Also 8 cloak rooms and 6 rooms in basement. The wainscoting is made in cement. The building is heated by steam indirect radiation.

The architect is Mr. Stephen O. Yates, of Richmond, Ind. Cost, complete, \$15,000. The Board of Education consists of Mrs. Ola McChristie, president, Mary H. Craig, clerk; Cora Pocock, treasurer; Eleanor Paty, Dr. W. E. Pryor and C. E. Morlatte.

**Boston's New School Board.**

The new law under which the Board of Education of Boston, Mass., is to be organized hereafter reads as follows:

Section 1. The School Committee of the City of Boston shall hereafter consist of five members, to be elected by such persons as shall be qualified to vote for School Committee in said city; but no person shall be eligible for election to the committee who is not an inhabitant of the city and has not been a resident thereof for at least three years continuously prior to the election. The School Committee shall serve without compensation, and their terms of office shall begin with the beginning of the municipal year following their election. At the annual municipal election in the year 1905, two persons shall be elected as aforesaid, to hold office for three years, two for two years, and one for one year; and thereafter at each annual municipal election there shall be elected for the term of three years so many persons as may be necessary to fill the places of the member or members of said committee whose term or terms

are about to expire. Vacancies in said committee arising from death, resignation or otherwise shall be filled for the unexpired term at the next annual municipal election.

Section 2. Upon the organization of the School Committee elected under and in accordance with the provisions of this act, the terms of office of the members of the present school committee of the City of Boston shall immediately terminate, and said members shall cease to exercise any authority under Chapter 53 of the Acts of the year 1877, and acts in amendment thereof and in addition thereto.

Section 3. The School Committee elected under and in accordance with the provisions of this act shall be the lawful successors of the present School Committee, and shall be entitled to all the powers and privileges conferred, and subject to the duties and obligations imposed by Chapter 53 of the Acts of the year 1877 and acts in amendment thereto and in addition thereto.

Cincinnati, Ohio. The transfer of pupils from one school to another will hereafter be entrusted to the hands of Supt. Dyer. The individual members of the board heretofore exercised this authority.

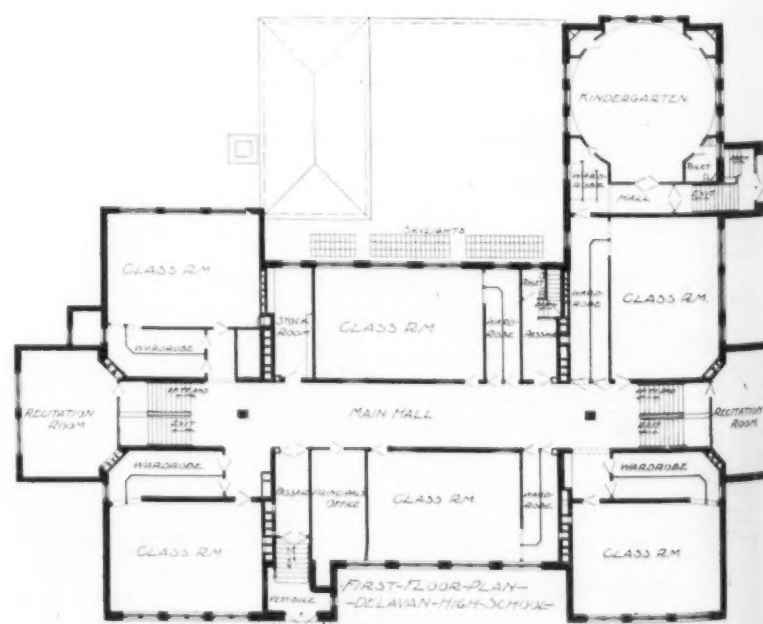
Minneapolis, Minn. Basket and mat weaving has been eliminated from the course of study by the School Board.



NEW SCHOOL BUILDING, DELAVAN, WIS.  
Chandler & Park, Architects, Racine, Wis.



BASEMENT PLAN.



FIRST FLOOR PLAN.

FLOOR PLANS, NEW HIGH SCHOOL BUILDING, DELAVAN, WIS.

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## Questions and Answers.



Under this heading all ordinary questions on school administrative problems are answered. If an immediate reply by letter is requested a stamped, self-addressed envelope should be enclosed. If the case requires special investigation a reply should not be looked for in less than a week's time. Unless specially stipulated the answer will appear in this column.

### A Work on School Architecture.

Question: Will you please tell me where I can get a reliable work on school architecture and one on building materials adapted for school houses? I have Bruce's Manual on School Architecture, but desire a more complete work by the same or other authorities.—Geo. R. Raynor, Falconer, N. Y.

Answer: The most exhaustive works on school architecture are the following:

Wheelwright's School Architecture, published by Rogers & Manson, Boston.

American School Buildings, published by John Wiley & Sons, New York City.

The first is descriptive of European as well as American school architecture, entering largely into the matter of orientation, lighting, sanitation, etc. The second work is written for the builder and contractor, rather than for the school official.

### Wants Architects.

Question: Can you recommend some good school house architects living within reasonable distance of this city? If so I should be pleased to have you do so. We want plans and specifications for a new \$30,000 school building.—M. O. Winfrey, Superintendent of Schools, Middlesborough, Ky.

Answer: In discussing architects we primarily ask you to guard against the inexperienced in school architecture. Only those who have been successful in planning and building school houses should receive consideration.

Among the architects who are accessible from your territory, and who have extended experience in school architecture are the following: P. A. Hannaford & Son, Tietig & Lee, Cincinnati, O.; D. X. Murphy & Bro., Clark & Howard, Charles D. Meyer, Louisville, Ky.; H. L. Bass, Indianapolis, Ind.; Wilbur T. Mills, Columbus, O.

### School Architecture.

Question: We are about to erect a new building at this place. I have been referred to you as being a probable source of information on question of vital interest at such a time.

I want discussions on (1) location, (2) light, (3) ventilation, (4) heating, etc.

Have you bound files of your journal that you will rent, if you are secured in case of loss? Or have you any separate publication covering this subject?—W. W. Lewton, Gridley, Ill.

Answer: Bruce's Manual on School Architecture covers all the questions you ask. Back numbers of the School Board Journal containing articles or illustrations are furnished at \$1 per dozen copies.

### School House Plans Wanted.

Question: I wish to secure plans for a two-story school building costing nine to twelve thousand dollars, and think that you may have some numbers of your paper containing such plans. I enclose stamps for same. If you can supply me with them, kindly do so; and if you do not have them, please give me the address of a firm from which I can obtain them with-

out the expense of hiring an architect.—W. C. Roaten, Bernice, La.

Answer: You fail to state the number of rooms you require and whether the building is to be of wood, brick or stone construction. We should judge, however, from the figure you name that you desire plans for a four-room building. We have sent you copies of our journal containing the desired plans.

We do not deem it wise to engage in the building of a school house costing from \$9,000 to \$12,000 without calling in the aid of an architect. Architects are not required for small one or two-room buildings where definite plans are at hand. When larger and more extensive buildings, however, are contemplated it always pays to secure an experienced schoolhouse architect.

For detail plans such as you desire we refer you to W. R. Parsons & Son Company, Schoolhouse Architects, Des Moines, Iowa.

Springfield, Ill. Supt. J. H. Collins, who retires from the schools at the end of the term, will spend the summer in Europe. His plans for future activity are not made.



NEW SCHOOL BUILDING, WEST ORANGE, N. J.

Arthur Dillon, Architect, New York City.

Building contains ten class rooms, teachers' and principal's rooms and assembly hall on third floor. Heating and ventilation by forced draught and direct radiation. Halls are twelve feet wide; stairways six feet wide and fire-proof. Class rooms contain 19 to 20 square feet of floor space per pupil; 230 to 240 cubic feet of air space per pupil; 20 to 22 per cent. of floor area is in glass. 30 cubic feet of fresh air per minute per pupil is furnished by ventilating system. Cost, in brick, \$40,000.



THE MASTEN PARK HIGH SCHOOL, BUFFALO, N. Y.

M. E. Beebe & Son, Architects.

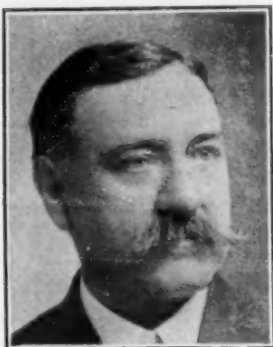


NEW PUBLIC SCHOOL, NO. 24, BUFFALO, N. Y.

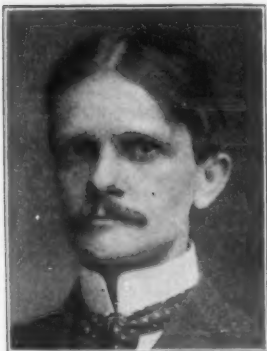
Chas. D. Swan, Architect.



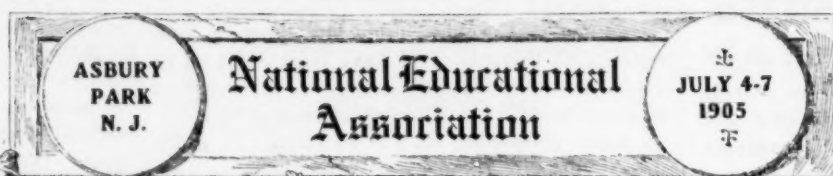
HON. A. L. BIXBY,  
Lincoln, Neb., who will speak on  
Teachers' Salaries.



HON. HARVEY H. HUBBERT,  
Philadelphia, Pa., who will speak  
on Teachers' Salaries.



HON. CHARLES ORR,  
Cleveland, O., Department Official.



### PROGRAM.

DEPARTMENT OF SCHOOL ADMINISTRATION.

SESSIONS: HIGH SCHOOL BUILDING.

### FIRST DAY.

Wednesday, 9:30 A. M. July 5th.

*Recent Progress in School Administration.*

By Wm. Geo. Bruce, Editor American School Board Journal, Milwaukee, Wis.

### TEACHERS' SALARIES.

*Shall Supply and Demand Regulate Teachers' Salaries?*  
Address by Hon. A. L. Bixby, Member Board of Education, Lincoln, Nebr.

Discussion led by Dr. Thomas J. Buchanan, Member Board of Education, Philadelphia.

*Shall the State Regulate Teachers' Salaries?*  
Address by Frank H. Sommer, Esq., Member Board of Education, Newark, N. J.

Discussion led by E. E. Reed, Jr., President Board of Education, Camden, N. J.; Hon. Harvey H. Hubbert, Esq., Member Board of Education, Philadelphia.

### SECOND DAY.

Thursday, 9:30 A. M. July 6th.

Appointment of Committees and Routine Business.

### SCHOOL ARCHITECTURE.

*Recent Progress in School Architecture.*

Address by Seymour Davis, Schoolhouse Architect, Philadelphia.

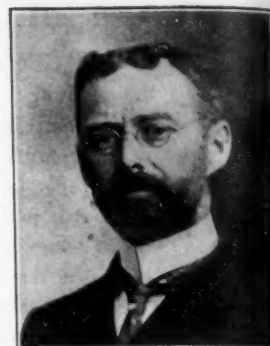
Discussion: W. A. Baldwin, M. D., Bloomfield, N. J., Wm. R. Broughton, Bloomfield, N. J.; E. Herman Arnold, New Haven, Conn.

*Needed Legislation in School Architecture.*

Address by Mr. C. B. J. Snyder, Architect and Superintendent of School Buildings, New York.

Discussion: Dr. Wm. H. Ziegler, Member Board of Education, Philadelphia; John A. Hartpence, Member Board of Education, Trenton, N. J.

Election of Officers, etc., etc.



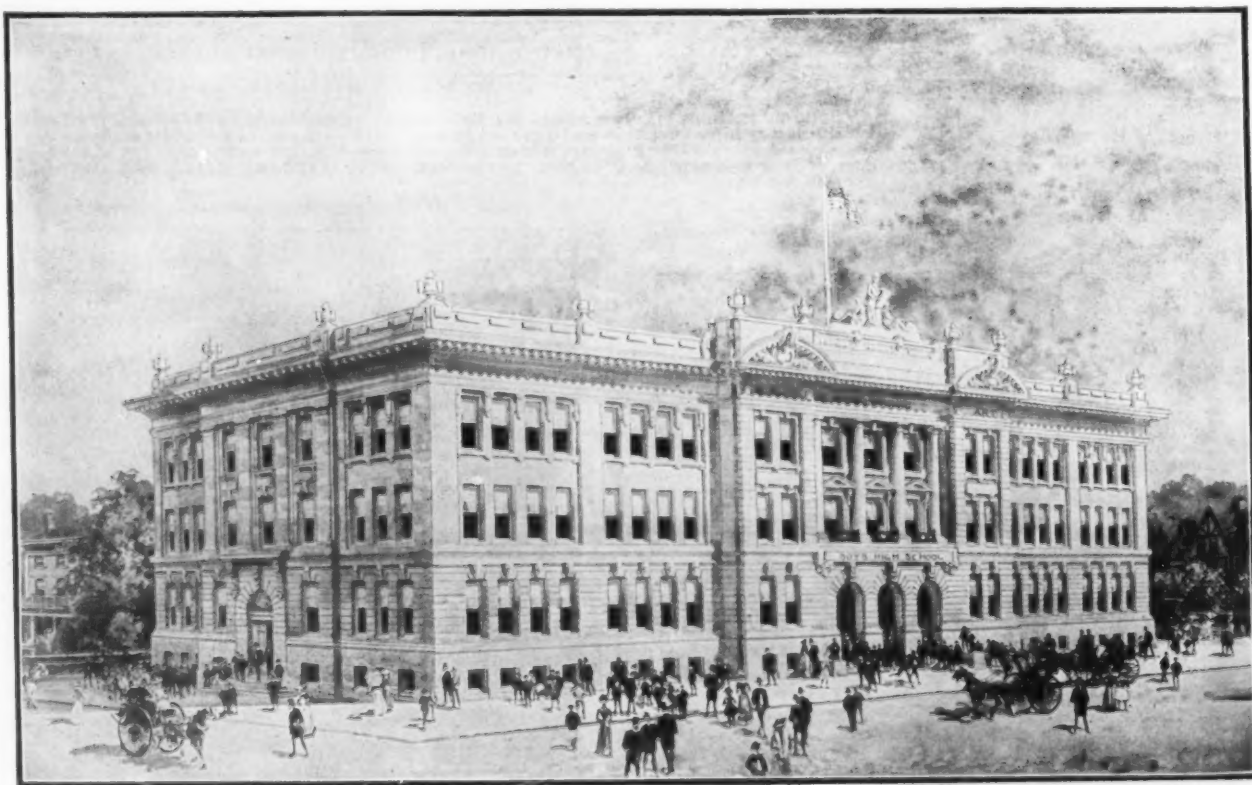
MR. C. B. J. SNYDER,  
New York City, who will speak on  
School Architecture.



MR. R. A. TUSTING,  
Local Sec'y N. E. A., Asbury Park,  
N. J.



MR. SEYMOUR DAVIS,  
Philadelphia, Pa., who will speak  
on School Architecture.



THE NEW BOYS' HIGH SCHOOL BUILDING, READING, PA. SEYMOUR DAVIS, ARCHITECT, PHILADELPHIA. COST, \$300,000.



# The Crime in Blackboard Crayons

## SECOND ARTICLE.

### Injurious Adulterations of Plaster Paris with Chalk.

The first article exposing the chalk adulterations which appeared in the May number of this journal proved a revelation to the school public. The letters which poured in to this journal from all parts of the country are ample proof that the revelations have created a stir in school circles throughout the land.

Much of the illness among pupils and teachers, which, owing to its peculiar character, could not be accounted for can now with reasonable certainty be traced to the harmful influence of Plaster Paris dust.

Medical experts have shown that this dust is as injurious to health as coal dust. In fact, they are agreed that the symptoms following the continued and excessive inhalation of chalk dust containing Plaster Paris are the same as those resulting from coal dust.

#### School Officials Equally Responsible.

The wrong committed against the pupils and teachers in supplying a harmful article in the nature of schoolroom supply is not only chargeable to the manufacturer but also to school officials. In fact, the manufacturer is less to be blamed than the school official who looked for cheapness rather than for quality.

The spirit of commercialism is to meet all demands in supplies of all kinds with a margin of profit, and while it is by no means claimed that substitutes in the interest of economy are not permissible, such substitutes must not endanger the physical welfare of those that use it.

It remains, however, for the purchasing factors of School Boards to know that there are crayons and crayons, that the cheapest grades are really harmful in that they consist largely of calcined gypsum or Plaster Paris, while the better grades are usually made of pure chalk and talcum or stearite.

#### Manufacturer Admits Charge.

The demand for cheapness has no doubt prompted manufacturers to introduce substitutes for chalk. The managers of the American Crayon Co. frankly admit the use of gypsum as the principal ingredient in the manufacture of crayons.

One of the managers of this company writes as follows:

Editor School Board Journal: While the process of manufacturing chalk crayons is not exactly a secret, still it is not generally known and we never care to give very much detailed information regarding same.

Would state, however, that the ingredients used in crayons, depend largely upon the grade. To illustrate, we manufacture at the present time, three different qualities of so-called chalk crayons. Our first quality crayon is our Waltham brand. This is the original chalk crayon, and for a chalk crayon its equal has never been produced.

The ingredients used in this crayon are all imported into this country.

Our second grade of crayon, known as the Empire brand, is made from the finest quality of domestic ingredients that we can buy.

The cheap grade of crayon, commonly known as Standard brand, is made from the cheapest of materials, and while there is a market for it, and we sell large quantities, still we do not recommend it nor is it fit for blackboard purposes. It is as good, however, as any cheap grade of crayon and superior to some that are on the market at the present time.

In the manufacture of these various crayons, there is used French and German chalk, clay, also gypsum. The cheap grade of goods, however, contains very little but *cheap gypsum*. We use in connections with this, a liquid for a binder, the properties of which we would prefer not to state.

#### Also Admits Gypsum.

The manager of another branch of the American Crayon Co. admits that gypsum is the principal ingredient in the cheaper grade of crayons. He says:

Editor School Board Journal: The common school crayons manufactured by this company are made principally from gypsum. Our best grades of crayons are made from the imported material, and our cheaper grade from the material obtained in this country; the imported being almost entirely pure gypsum while that obtained in this country contains a good deal of foreign matter which depreciates the quality of the goods. To the ordinary user there might appear to be but little difference, but upon close inspection the crayons made from the imported material would be found to be much softer and smoother and with scarcely any wear upon the blackboard, while those made from the domestic material would be found to mark harsh, as they contain more or less grit, and, while this is ground fine so that it will mark, it wears much more rapidly upon the blackboard and the marking qualities are not nearly as satisfactory. As stated above, *gypsum is a principal ingredient* of all school crayons, but other material is used for the purpose of tempering the gypsum. This is essential as gypsum alone would make crayons that could not be used at all.

#### A Chemical Test.

The various crayons now in the market will be subjected to a chemical analysis by unquestioned authorities. We propose to demonstrate beyond a peradventure of doubt that the so-called common crayons are adulterated with Plaster Paris.

It will also be demonstrated that the inhalation of Plaster Paris dust has the same effect upon the membranes of the throat and lungs as has coal dust.

The injurious effects upon the human system of this class of dust has already been demonstrated in these columns by the highest medical authorities in the country. Further proof will follow.

It remains for the school authorities to take heed, follow dispassionately the revelations regarding the vicious adulteration of school crayons and discard the worthless and injurious article entirely from use in the schools.

Many teachers and pupils have been sent to an early grave through the use of the Plaster

Paris crayons, and it is high time that the crayon evil be checked, now that the facts regarding them have practically been established.

#### Duty of School Boards.

The item of crayons for schoolroom use is comparatively a small one in the ordinary list of school supplies. The cost of crayons is not a large one.

It would, therefore, seem that the question of economy is not seriously to be considered in this connection. But, in truth, the better grade of crayons, those absolutely free from injurious ingredients, are in serviceability, as economical as the cheapest grade in the market. They last longer, as a rule, are practically dustless, absolutely harmless, and, while they cost a trifle more, are in fact more economical in the end than the cheap adulterations now so largely in use.

We urge upon school officials to purchase no crayons unless the seller guarantees them to be absolutely free from gypsum or Plaster Paris.

(To be Continued in the July Number)

#### AMONG BOOKMEN.

Parker B. Simmons has succeeded to the business of A. Lovell & Co., New York, educational publishers.

Ed. Raven-Byrne covers ten states for D. C. Heath & Co. He is as interesting, active and good-natured as ever.

E. A. Winchell, who represents Maynard, Merrill & Co. in Central New York, makes his home at De Ruyter.

#### DAME NATURE HINTS.

##### When the Food is Not Suited.

When Nature gives her signal that something is wrong it is generally with the food; the old Dame is always faithful and one should act at once.

To put off the change is to risk that which may be irreparable. An Arizona man says:

"For years I could not safely eat any breakfast. I tried all kinds of breakfast foods, but they were all soft, starchy messes, which gave me distressing headaches. I drank strong coffee too, which appeared to benefit me at the time, but added to the headaches afterwards. Toast and coffee were no better, for I found the toast very constipating.

"A friend persuaded me to quit the old coffee and the starchy breakfast foods, and use Postum Coffee and Grape-Nuts instead. I shall never regret taking his advice. I began using them three months ago.

"The change they have worked in me is wonderful. I now have no more of the distressing sensations in my stomach after eating, and I never have any headaches. I have gained 12 pounds in weight and feel better in every way. Grape-Nuts make a delicious as well as a nutritious dish, and I find that Postum Coffee is easily digested and never produces dyspepsia symptoms."

Name given by Postum Co., Battle Creek, Mich.

There's a reason.

Get the little book, "The Road to Wellville," in each package.

(Editors Note:—The first of this series of articles appeared in the May number of the American School Board Journal.)



### A BOOKMAN'S RISE.

Hon. Hiram Hadley, the Superintendent of Public Instruction of New Mexico, is an old time bookman.

In the early seventies he was associated with his brother at Chicago in the retail and wholesale book trade under the firm name of Hadley Brothers. The firm represented the Scribners, who brought out Guyot's Geography. This book revolutionized the geography in that it discarded the old Catechism method of questions and answers and advanced the topical method.

Much of the success which the new geography of that period met with is due to Mr. Hadley's energy and industry.

### NORD DAKOTA SKOOLS.

Meester Bruce, mane frend:

A reads on your paper many gude ting und A skal tal you von ting now. A ben living in Nord Dakota many yare, und A ben vorken for Amerikan Book Co. too, und A find many Norwegan skool teachers und dem tal ma dem ben Amerikan girls effery tame.

Dem ben purty skarp too, und dem gat married to dem farmers mans, und dem mak gude housekeepers, so ve don't haf som teacher hare very long tame.

A tank ef yous skal print et on yours paper bout dem troubles, ve skal haf som Jankee skool-vomans kom hare fon Weeskonsin und Meenasota.

A skal pa gude price for das teacher vot skal stay on mane skool von hole yare und gat not married. Femty dollar a skal pa, und gif dem board for sax dollar mont.

Von tame vas teacher write me von letter bout skool und sa skal lak to board by mine house. A tank it vos mans teacher—dem ben big strong hand-writing und dem sign name A. J. Jones. So A sa ef you vil sleep by hire mans you kan sta on mine house.

A don't hare fon das teacher som more but et vas a faller tol ma das ben von voman teacher, so Meester Bruce yous skal axplain dem must sa ef dem ben vomans or mans vote write to ma.

A live at Belmont, Nord Dakota, on der Meenasota side.

OLE YONSON KITTLESON,  
510 N. Fifth St.,  
Grand Forks, N. D.

### MR. BAKER AT HEAD.

Mr. Homer Merriam of the G. & C. Merriam Company, Springfield, Mass., publishers of Webster's International Dictionary, has retired from the presidency of the company, which position he held for several years.

He is 90 years of age, and will spend his remaining years in California. With his retirement the last of the Merriams actively connected with the historic enterprise passes from the scene.

The new president of the company is Mr. O. M. Baker, who has been identified with its interest for a long number of years and did much to maintain the unrivalled prestige of the Webster's International Dictionary.

### GLAD TO GET BACK.

"The bookmen who have entered the insurance business are now earning more money than they could reasonably expect to earn in the publishing business," said a representative of a leading school book house recently, "but quite a number of them would gladly get back into the old occupation again."

"The insurance business," continued the bookman, "is not what it is cracked up to be. It has its uncertainties and its ups and downs. The bookman who has become accustomed to deal with school men must now deal with all classes. He runs into the uneducated money bag, the arrogant captain of industry and the rough laborer. One must be handled with gloves and the other with a hammer; one requires pushing, the other pulling.

"The book business is certainly far more congenial, more specially since you deal with the best people in the country."

### AUTHOR OF SMITH ARITHMETICS.

David Eugene Smith, the author of the Smith Arithmetics, was born in Cortland, N. Y., January 21, 1860. He is the son of the Hon. A. P. Smith and Mary E. (Bronson) Smith.

In 1881 Mr. Smith took the degree of Ph.B. from Syracuse University. In 1884 the same institution conferred on him the degree of Ph. M., and in 1887 the degree of Ph.D. The Michigan State Normal College, in 1898, gave him the degree of Master of Pedagogics.

From 1884 to 1891 Dr. Smith taught mathematics in the State Normal School at Cortland, N. Y. From 1891 to 1898 he was Professor of Mathematics in the Michigan State Normal School. From 1898 to 1901 he was principal of the New York State Normal School at Brockport. During the summer of 1900 Dr. Smith lectured on mathematics at the summer school of Harvard University, and since 1901 he has been Professor of Mathematics at Teachers' College, Columbia University.

He is librarian of the American Mathematical Society, and is a member of the committee of publication of the English Mathematical Association and of the German Mathematiker-Vereinigung. He is also mathematical editor of the new International Encyclopedia.

He is the author of a Plane and Solid Geometry, a History of Modern Mathematics, and the Teaching of Elementary Mathematics. With Prof. Beman of the University of Michigan he has written Famous Problems of Geometry, New Plane and Solid Geometry, New Solid Geometry, New Plane Geometry, Elements of Algebra, Academic Algebra, Geometric Paper Folding and a translation of Fink's History of Mathematics.

Dr. Smith is deeply interested in the historical side of the science in which he has specialized. Recently he purchased the library of Prof. Ferdinando Jacoli, of Venice, which he had added to his own collection for the use of his students. He has also made available for study a rare collection (the largest of its kind) of portraits and manuscripts of celebrated mathematicians. It includes letters of Leibnitz, Euler, the Bernoullis, Legendre, Laplace, Monge and many others of equal rank, together with a brief manuscript of Newton.



DAVID EUGENE SMITH.



MR. O. M. BAKER.

President-elect the G. & C. Merriam Co., Springfield, Mass.

Mr. Truman H. Kimpton, educator and former bookman, is devoting his time exclusively to literary labors. He makes his home at 664 Huntington Avenue, Boston.

Mr. E. J. Forbes still represents the G. & C. Merriam Company in Australia. He is the sole Australian agent for Webster's International Dictionary. He makes his headquarters in Sydney, with headquarters in Melbourne and Wellington.

W. F. Correll represents Ginn & Company in the State of Washington.

E. O. Clark is the Boston manager of the Milton Bradley Co. Mr. Clark has an extended experience in field work, both in the North and the South.

### COFFEE CONGESTION.

#### Causes a Variety of Ails.

A happy old lady in Wisconsin says:

"During the time I was a coffee drinker I was subject to sick headaches, recurring every 2 or 3 weeks, and sometimes lasting 2 or 3 days, totally unfitting me for anything.

To this affliction was added, some years ago, a trouble with my heart that was very painful, accompanied by a smothering sensation and faintness.

I would be unable to lie down, but was compelled to sit gasping for breath until I was perfectly exhausted.

Dyspepsia, also, a few years ago came to make life harder to bear. I took all sorts of patent medicines as well as doctor's prescriptions, but none of them helped me for any length of time.

"The doctors frequently told me that coffee was not good for me; but without coffee I felt as if I had no breakfast. I finally decided about 2 years ago to abandon the use of coffee entirely, and as I had read a great deal about Postum Food Coffee, I concluded to try that for a breakfast beverage.

I liked the taste of it and was particularly pleased to notice that it did not 'come up' as coffee used to. I had only hoped that the Postum Food Coffee would help my digestion, but I soon found that it was doing much more than that. The bad spells with my heart grew less and less frequent, and finally ceased altogether, and I have not had an attack of sick headache for more than a year. My digestion is good, too, and I am thankful that I am once more a healthy woman. I know my wonderful restoration to health came from quitting coffee and using Postum Food Coffee." Name given by the Postum Co., Battle Creek, Mich.

"There's a reason," and it is this. Coffee has a direct action on the liver with some people, and causes partial congestion of that organ preventing the natural outlet of the secretions. Then follows biliousness, sallow skin, headaches, constipation and finally a change of the blood corpuscles and nervous prostration.





Seattle, Wash. The county text-book board selected the following books: Normal Review System of Writing, Silver, Burdett & Co.; Colton's Elementary Physiology and Hygiene, D. C. Heath & Co.; Heath's readers, "Stepping Stones to Literature," Silver, Burdett & Co.; Supplementary Geography readers, "How We Are Fed," "How We Are Clothed," Macmillan Company; Nature Studies, Overton and Hill, American Book Company; 10-cent classics for eighth year readers, Educational Publishing Company; Source readers, American history, Macmillan Company; Pioneers history stories, supplementary primary readers, "Overall Boys," "Sunbonnet Babies," Outdoor primer, Rand-McNally Company; supplementary history and supplementary geography, Atkinson & Mentzer.

Paducah, Ky. Supt. Leib recommended the Prang drawing books.

Louisiana. The last contract with the twenty publishing houses whose books were adopted by the State Board of Education for use in the public schools of Louisiana during the next four years was signed with Ginn & Co., of New York, who will furnish the state its Latin grammars and algebras. The contracts do not go into effect until Sept. 1, as the old contracts, made four years ago, will be in effect until Aug. 31. The new companies must have their books for sale in every parish in the state on Sept. 1, and must have at least four depositories in every parish.

Guthrie, O. T. Four of the fifteen book companies transacting business in the state have notified Territorial Superintendent Baxter of their intention to comply with the Lydick text-book law. Each company must file a statement as to stockholders and as to whether it is combined with any other company or connected with any other company for the regulation of prices. The four companies which will swear they are not trusts are: The American Book Company, Ginn & Co., D. C. Heath & Co., and the Maynard, Merrill & Co.

Madison, Wis. The book trust was coldly turned down by the county superintendents assembled in annual convention. The trust had been busy trying to influence county superintendents and school men throughout the state against the Ainsworth text-book bill. Their scheme was uncovered when a superintendent offered resolutions condemning the text-book bill, which was recently sent to engrossment by a large majority, in the assembly. But the book trust scheme was summarily turned down and the resolutions were left to die in the hands of their author.

Missouri. The law creating the State School Book Commission has been repealed.

Minnesota. A state law provides that Webster's International Dictionary be recognized as the official work on the subject of dictionaries. The schools are supplied with them through the state department of public instruction at wholesale prices. An attempt to repeal the law was promptly defeated in the legislature when the full import of the movement was understood. Without any lobbying on the part of the publishers the educators of the state urged the retention of the Webster's International Dictionary. It proved a tribute to America's standard work.

Zanesville, Ohio. Adopted Dumon's Natural History in five volumes.

#### A SCHOOL BOOK MONOPOLY.

"One publishing house has enjoyed a monopoly of the book trade in Florida for a long time. They furnish at least 95 per cent of the books to this state, says the Metropolis, of Jacksonville, Fla. If this is not as near an ideally perfect monopoly as could be gotten up, then we cannot understand the meaning of the term monopoly. It is reasonable to suppose that one concern makes all of the best books? We have been unable to find another state in this nation, with the possible exception of Kentucky, where any one has such a monopoly of the business. Why is this true? Here is food for thought.

"There are at least forty smaller publishing houses in this country making school books. Do none of them make books under the present plan? Why is it that Camden County, Georgia, can buy Fields' United States History at 65 cents, and Duval County, Florida, has to pay \$1 for this book? Let's have competition. We haven't this now. Let's have a law that will bring every publishing house in the United States to Florida to compete for the business. Why should Kansas children get Redway's geographies at 30 and 75 cents, when Florida boys and girls have to pay 60 cents and \$1.25?

"The members of the Legislature should study the facts the governor has gathered up from the several states, and put an end to extortionate prices from Florida children by one great book monopoly.

Smith's Grammar School Arithmetic has been adopted for use in the State of Louisiana during the next four years.

Fort Atkinson, Wis. Cyr's Readers have been adopted for use in the schools.

Concluded on subsequent pages.

# HISTORIES

FOR

## HIGH SCHOOLS AND COLLEGES

### Myers' Ancient History

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LIST PRICE, \$1.50

A thorough revision of what was previously the best book on the subject.

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A companion volume to the revised edition of Myers' "Ancient History."

### Robinson's History of Western Europe

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An epoch-making text-book on the subject, in that it solves in an entirely satisfactory way the problem of proportion.

### Robinson's Readings in European History, Volume I

LIST PRICE, \$1.50

A convenient and direct road to the sources of history is opened to the student in this collection of extracts from vivid, first-hand accounts of persons, events, and institutions.

### Cheyney's Short History of England

LIST PRICE, \$1.40

A scholarly and comprehensive work, which will adequately meet the needs of teachers of history.

### Montgomery's Student's American History

(Revised Edition)

LIST PRICE, \$1.40

In this edition especial attention has been given to questions of political and constitutional history.

# GINN & COMPANY

PUBLISHERS

Address: 378-388 Wabash Avenue, CHICAGO, ILL.

## TEACHERS' SALARIES

Tacoma, Wash. The new salary schedule under consideration bears the following provisions:

"Salary of Principals—The salary of principals employed by the board shall be the maximum salary of \$75 paid to grade teachers and \$5 additional for each forty-five pupils enrolled up to a maximum salary of \$130 per month; provided, that the salary of any principal may be increased beyond the maximum amount named by unanimous vote of the board.

"Salary of Teachers—The salary of teachers employed by the board shall be \$50 per month for the first year and \$2.50 additional for each year of service until a maximum of \$75 per month is reached; except that the maximum salary of the teachers in the seventh and eighth grades shall be \$80; provided, that this rule shall not reduce the salary of any teacher now employed.

"Leave of Absence—Principals and teachers granted a leave of absence on account of illness shall be entitled to the same position assigned to them at the beginning of the school year, provided they return within three months; provided, that principals and teachers who have been in the employ of the district for five consecutive years shall be entitled to five months' leave of absence, if asked for at the beginning of a semester, and shall be entitled to their former assignments; provided further, that principals and teachers who have been in the employ of the district ten consecutive years shall be entitled to one year's leave of absence if asked for at the close of the school year, and shall also be entitled to their former assignment upon return, provided that no salary shall be paid during such leave of absence."

Binghamton, N. Y. The minimum for grade teachers' salaries has been raised from \$380 to \$400.

Des Moines, Ia. Board increased salaries from \$2 to \$10 per month.

Escanaba, Mich. The following schedule of salaries has been adopted by the School Board: Grades one and seven, minimum per month, \$45; maximum \$55; grades two and six, minimum per month, \$42.50; maximum \$52.50; grades three, four and five, minimum per month \$40, maximum \$50; grade eight, minimum per month, \$50, maximum \$60. All increase in salary will be at the rate of \$2.50 per month for each year of satisfactory service. Two years' experience in teaching elsewhere will be counted as one year in the application of the schedule. Kindergarten and high school teachers' salaries will be fixed without reference to the above schedule. Principals will receive \$5 per month in addition to the salary drawn as teachers.

New Hampshire. The following maximum and minimum salary rates prevail in New Hampshire cities: Manchester, \$550-\$350; Concord, \$450-\$300; Nashua, \$550-\$300; Dover, \$460-\$250; Portsmouth, \$550-\$300; Berlin, \$600-\$323; Keene, \$418-\$304; Rochester, \$405-\$333; Laconia, \$500-\$360; Somersworth, \$475-\$300; Franklin, \$575-\$360.

In Massachusetts the minimum salary ranges from \$280 to \$500 while the maximum runs from \$400 to \$850, the latter being at Springfield.

In Maine the maximum is from \$375 to \$500, while the minimum ranges from \$228 to \$360.

In Connecticut the maximum is from \$480 to \$700, and the minimum from \$380 to \$400.

Kansas City, Mo. The teachers of grade schools have asked the board for an increase of \$210 in their salaries.

Meadville, Pa. The board has adopted a resolution providing that all supply teachers after one year's service without pay, and all other paid supply teachers, if retained on the teaching force, be paid a salary of \$25 a month.

The salaries of Lancaster County, Nebraska, teachers have increased the past year until the minimum wage is now \$40 per month.

The average salary of town and city school teachers in Missouri is \$520 per year and those of the rural districts \$225.

New York City. The city charter provides that in mixed classes, classes containing both boys and girls, the teacher in charge shall receive not less than \$60 more than a teacher of girls' classes.

Lansing, Mich. A new schedule of teachers' salaries and rules governing the employment of teachers has been adopted.

No teacher is to be employed in the high school who is not a graduate of some approved college or university or has taken a four years' course in some normal training school.

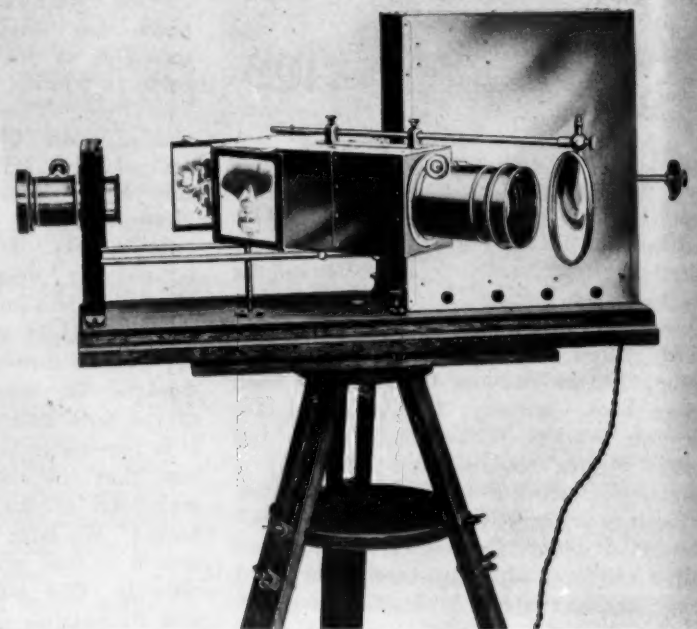
The salaries of the superintendent, principal of the high school, men teachers in the high school and the supervisor of drawing and of music are to be fixed by the board without reference to the schedule. The other salaries are as follows: First year, \$500; second year, \$550; third, \$600; fourth, \$650; fifth, \$675; sixth, \$700; seventh, \$725; eighth, \$750; ninth, \$775; tenth, \$800. The assistant principal will receive \$50 more than the above schedule.

The salaries of the principal of ward schools will be \$500 for the first two years, after which they will be increased \$25 the two succeeding years; in the fifth year the salary will be \$550, sixth \$575, and seventh \$600. After the sixth year merit alone will govern.

The following was adopted to govern the employment of grade teachers:

No graduate of a high school will be employed without first graduating from some college, university or normal school, or unless the applicant has taught two full years of at least six months each and has a second grade certificate. The salaries start at \$350 for the first year; second, \$375; third and fourth, \$400; fifth and sixth, \$425; seventh, \$450; eighth, \$475; ninth, \$500. After that merit alone will govern.

All grade teachers having more than one grade will receive \$25 for each additional grade;



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The Reflectoscopes are now in use in a large number of College and School lecture rooms and are accomplishing results exactly according to our statements.

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teachers will be given credit for experience in other cities; no teacher is to receive the increase unless her work is of the highest order and fully approved by the superintendent, and no teacher's present salary is to be reduced to fit the schedule.

Mississippi. The legislature has passed a bill increasing the salaries of county superintendents. It is said the compensation of the office has been so meagre that efficient educators could not be induced to take it. The minimum salary under the bill is \$400, while the average is about \$825 per annum.

A Boston man who was visiting Washington said recently: "It is a curious thing that the wages of artisans should be higher than the salaries of men and women employed as teachers in the public high schools of our American cities.

"That hod-carriers, plasterers, bricklayers and paper hangers should make twice as much money than these intelligent, hard-working and self-sacrificing people do, is a condition that is not creditable to the civilization of the twentieth century. I am not saying that the workmen who use their hands should get less pay, but assert that the teachers should get more. Probably it is their own fault that they do not. May be if they had organized unions and insisted that their services should be better compensated they would attain their end. Certainly there are not many citizens who would deny the proposition that a high school teacher is worth as much as any mechanic."

National Conference on the Education of Backward, Truant and Delinquent Children, Chicago, July 7-8, 1905.

Chicago. The board has reprimanded a principal for chewing tobacco.

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TEXT-BOOKS FOR BOSTON.

Boston. Supt. George H. Conley has recommended the following books for use in the high and Latin schools:

Selections from Homer's Iliad, by Allen R. Benner. D. Appleton & Co.

Eight Thousand Examples in Algebra, by Charles M. Clay. The Macmillan Co.

Exercises in French Syntax and Composition, by Jeanne M. Bouvet. D. C. Heath & Co.

A French Reader, by Fred D. Aldrich and Irving L. Foster. Ginn & Co.

A Short History of English Literature, by Eva M. Tappan. Houghton, Mifflin & Co.

Mediaeval and Modern History, revised edition. Ginn & Co.

Ancient History, revised edition. Ginn & Co.

The Middle Ages, Part I., by Philip Van Ness Myers. Ginn & Co.

The Modern Age, Part II., by Philip Van Ness Myers. Ginn & Co.

A First Scientific French Reader, by B. Bowen. D. C. Heath & Co. (Now authorized for use as a text-book in the Mechanic Arts High School.)

New Greek Prose Composition, by F. E. Woodruff. Sibley & Co.

Latin Composition, Part I., by Benjamin L. D'Oge. Ginn & Co.

FOR HIGH SCHOOLS.

That the following-named books be authorized for use as text-books in the high schools:

Descriptive Chemistry. D. C. Heath & Co.

Elementary Principles of Economics, by Richard T. Ely. The Macmillan Co.

El Capitan Veneno, by A. de Alarcon. D. C. Heath & Co.

Zaragueta, by Miguel R. Carrion and Vital Aza. Silver, Burdett & Co.

American Phonography, by William L. Anderson. Ginn & Co.

England's Story, by Eva M. Tappan. Houghton, Mifflin & Co. Authorized in the Latin schools.

Lessons in Physics, by L. D. Higgins. Ginn & Co. High and grammar schools.

FOR GRAMMAR SCHOOLS.

Following-named books authorized for use as text-books in the grammar schools:

Morse's Educational System and the Natural Movement Method of Practical Writing, by W. A. Whitehouse. Silver, Burdett & Co.

The Macmillan Series of Writing Books, by Harry Houston. The Macmillan Co.

Smith's Educational System of Intermedial Penmanship. Richardson, Smith & Co.

Medial Writing Books, by H. W. Shaylor and G. H. Shattuck. Ginn & Co.

Merrill's Modern Penmanship. Maynard, Merrill & Co.

The Natural System of Writing, by A. F. Newlands and R. K. Row. D. C. Heath & Co.

Text-Books of Art Education, by Hugo B. Froehlich and Bonnie E. Snow. The Prang Educational Company. Books I. to VI. inclusive authorized for primary and grammar schools.

Essentials of Chemistry, by John C. Hessler and Albert L. Smith. Benjamin H. Sanborn & Co. Now authorized for use as a supplementary book in the high schools, transferred to the list of text-books in the high schools.

First Year Latin, by William C. Collar and M. Grant Daniell. Ginn & Co. Substituted for Collar & Daniell's The First Latin Book, for grammar school course.

The Comprehensive Method of Teaching Reading, Book I. and Book II., by Emma K. Gordon. D. C. Heath & Co. For primary schools.

The Standard Fourth Reader and the Standard Fifth Reader, by Martin C. Brumbaugh. The Christopher Sower Company. Transferred

from the list of supplementary books in the grammar schools to the list of text-books for the grammar schools.

Following-named books authorized for use as reference books in the high schools:

A General History of Commerce, by William C. Webster. Ginn & Co. (One copy to be furnished each teacher of the subject.)

Commercil Correspondence and Postal Information, by Carl L. Altmaier. The Macmillan Co. (One copy to be furnished each teacher of the subject.)

Principles and Progress of English Poetry, by Charles M. Gayley and Clement C. Young. The Macmillan Co. Authorized for use as a reference book in the high and Latin schools. (One copy to be furnished each school.)

Morals and Manners, by William J. Shearer. Richardson, Smith & Co. (For use as a reference book in the grammar and primary schools. (One copy to be furnished each teacher.)

Commercial and Industrial Geography, by John J. Macfarlane. Sadler-Rowe Co. Authorized for use as a reference book in the high schools. (One copy to be furnished each teacher of the subject.)

Modern Chemistry, by Fredus N. Peters. Maynard, Merrill & Co. Authorized for use as a supplementary book in the high schools.

Text-Book Adoptions.

Tacoma, Wash. The county board of education of Pierce county has selected most of the books which are to be used in the district schools during the next five years. Action on some of the higher subjects has been postponed awaiting meeting of the Tacoma city text-book commission. Following are the books selected up to the present writing:

Readers—Bass' Primer, D. C. Heath & Co.; Baldwin's readers, first,

second and third grades, American Book Co.;

Stepping Stones to Literature, fourth, fifth and sixth grades, Silver, Burdett & Co.

Supplementary readers—Heath readers, D. C. Heath & Co.; Cyr

Folk Lore, and Art Literature readers, Ginn & Company; Hart Source

readers, The Macmillan Company; Pioneer

History stories.

Arithmetic—Milne,

first, second and third

books, American Book

Company.

Grammar—Hyde

Two Book Course, D. C. Heath & Co.; supplementary, Language

through Nature, Literature and Art, Rand,

McNally & Co.

Geography—Dodge's

Three-Book Course,

Rand, McNally & Co.

United States History—Mace's School

history, Rand, McNally & Co.

Spellers—Chancellor's Two-Book Course,

The Macmillan Company.

Drawing—Augsburg's series, Educational Publishing Co.

Music—Silver, Burdett & Company's.

Writing—First six books, Morse Educational System and two books, "Business and Social Forms" of Normal course, supplementary, Silver, Burdett & Co.

Ancient History—Myers', Ginn & Company.

Geometry—Wells', D. C. Heath & Co.

Physical Geography—Tarr & McMurray's, The Macmillan Company.

Louisiana. The four text-book depositories will be located at New Orleans, Shreveport, Alexandria and Monroe.

Danbury, Conn. Adopted Morton's Geography.

Hall & McCreary, Chicago, have a good list of books on public speaking, dialogues, etc.

SILVER, BURDETT & COMPANY.

Edgar O. Silver began the business which has developed into the eminently prosperous house of Silver, Burdett & Co., April 21, 1885, and on April 22, 1905, he gave an anniversary luncheon at the Park Avenue Hotel to nearly 100 of the business associates, past and present. Mr. Silver spoke of the hopes and fears of twenty years ago, and of certain notable trials that had eventuated in triumphs through the early years. Mr. Beattys gave delightful reminiscences, having been with the house longer than any other than Mr. Silver. Dr. Chandler, editor-in-chief, spoke of the future of the house. The affair was purely informal but was a good deal of a "love feast."

The chief event of the day was the presentation to Mr. Silver of a beautiful loving cup with appropriate inscription, and the motto, "Haec olim Meminisse juvabit."

Those who remember the early days of this house, and see its present proportions can hardly realize that so much has been wrought in twenty years.

# CASH FOR USELESS School Books

Clip off the attached coupon, fill it out and mail it to us today, and we will tell you how to turn your useless text books (new or used) into CASH.

## Do It Now.

Remember, school books soon become old editions and valueless; so turn yours into cash NOW.

**HALL & McCREARY**  
261-266 Wabash Ave., CHICAGO

Hall & McCreary, 261-266 Wabash Ave., Chicago. Please send me at once full information regarding your method of buying new and used text-books, also your catalogue giving prices you pay.

Name \_\_\_\_\_ Address \_\_\_\_\_



Columbus, O. The board ordered metal ceilings for the new school from Kinnear & Gager at \$1,549.

Vergennes, Vt. Supt. G. W. Beerwort of the Vergennes School Seat Co. has recovered from a serious illness.

Bluffton, Ind. An ex-trustee of Lancaster township has been charged with purchasing an excessive quantity of school supplies from Wm. Belt who represents Richard Ryse the school supply jobber of Indianapolis, Ind. The investigation has come to a stop when it was announced that Mr. Ryse had destroyed his books containing the record of these transactions.

The Eagle Pencil Company is manufacturing a series of penholders in so-called "Radium Finish." They include delicate shades in purple, pink, yellow, light blue and red. They are also most tasteful in design.

C. J. Jorgensen, who is the colorist of the Public School Art League of Milwaukee, furnished the color schemes for decoration of the school rooms free of charge, has expressed his willingness to continue, in order to promote a better education in color, to furnish upon application, harmonious color samples and advice for the decoration of any Public School in the state.

The McIntosh Stereopticon Co., of Chicago, report many orders for their Improved College Bench Lantern, among them being: Indian University, Bacone, I. T.; Wesleyan University, Mitchell, S. D.; Lake Forest University, Lake Forest, Ill.; Texas Christian University, Waco, Tex.; Ferris Institute, Big Rapids, Mich.; Newberry College, Newberry, S. C.

New York City. The recent bidders on school furniture contracts for School No. 103 were: The Manhattan Supply Co., C. H. Browne, American School Furniture Co., Alexander R. Brown, Slatington-Slate Co., Henry Lang, Richmond School Furniture Co., and F. Loeser & Co. The Richmond School Furniture Co. and the Slatington Slate Co. were the successful bidders.

Detroit, Mich. Contract for fire extinguishers was awarded to the Detroit Fire Extinguisher Co.

New York. A new line of artists crayons have been placed upon the market by Eberhard Faber.

Torrington, Conn. Contract was given the American School Furniture Company for the Chandler desk and chair.

Logansport, Ind. The heating contract for the new school went to Kruse & Dewenter, of Indianapolis.

Camden, N. J. The board has a school supply scandal on hand. It is claimed that a local concern charged \$20 each for globes worth 75 cents.

The Joseph Dixon Crucible Company has secured parlors in the West End Hotel at Asbury Park, for the meeting of the National Educational Association. In these rooms they will have an exhibition of color work done with the Dixon crayons, as well as drawings in pencil. The rooms are easy of access, being on the ground floor, and where everyone can easily pass through and see the exhibit. All visiting teachers will be welcome. Mr. Reed and his assistants will be in attendance during the entire convention, to explain the merits of the Dixon crayons and the Dixon pencils.

Pittsburg, Pa. The Squires Inkwell Co., well known throughout the United States, has brought out another inkwell for school-room use. The company has been a leader in this class of goods, and any improvements brought out under its auspices are worthy of attention.

The J. L. Hammett Co. maintains an office at 43-45 East 19th Street, New York, as well as at 116-120 Summer Street, Boston. Mr. A. R. Phillips is the secretary of the company and the manager of the New York office.

Boston, Mass. The board purchases annually \$6,000 worth of pencils for use in the schools.

Oberlin, Ohio. Oberlin College has been recently supplied with an Imperial Dissolving Stereopticon by the McIntosh Stereopticon Co. of Chicago.

Pittsburg, Pa. A 20-inch filter will be installed in the Ralston school at a cost of \$765.

The Milton Bradley Co., of Springfield, Mass., has issued a handsome catalogue of its kindergarten material and school aids. The cover design is a reproduction of an ornamental clay model with the bust of Froebel as the central theme.

The Dixon's solid crayons have just been adopted in the City of Indianapolis, Ind. These crayons are not only standard in New York City, but they hold their own in competition with others that seem to be apparently cheaper.

Milwaukee, Wis. Three hundred dozen blackboard erasers were supplied by E. W. A. Rowles, Chicago.

Boston, Mass. Chandler & Barber have issued a new and attractive catalogue on manual training tools and supplies. The firm has also issued a catalogue on Ornamental Bent Iron.

The Central Scientific Co., of Chicago, has been organized with Mr. A. H. McConnell as president. The other officers are the following: Vice-president, H. C. Arms; secretary, J. M. Roberts; treasurer, A. H. Standish. Mr. Arms is a young man, the son of the late Mr. Arms who was for many years connected with the W. A. Olmstead Co.

Among the Chicago schools the following have added the McIntosh Improved College Bench Lantern to their equipments during the last month: Medill High School, Beale School, James Wadsworth School, John Marshall High School, Langland School.

The Central Scientific Co., of Chicago, has brought out a new laboratory desk which is said to possess exceptional merit.

The Board of Education, Detroit, Mich., has placed an order for five McIntosh Improved College Bench Lanterns for use in the various schools.

Farquhar & Albrecht, of Chicago, have purchased the stock and plates of the Oliver Adams Publishing Co. This company made a specialty of school registers and school blank books.

The Burlington, Ia., schools have adopted the McIntosh Imperial College Bench Lantern, and have several of them in use in their public schools.

M. H. E. Beckley has established himself in the school supply business at 260 Wabash Avenue, Chicago. Mr. Beckley was formerly associated with A. E. Kaltenbrun as owner of the Standard School Furnishing Co.

The State Normal School at DeKalb, Ill., has purchased another McIntosh Imperial Dissolving Stereopticon, and the Eastern Illinois State Normal School at Charleston, Ill., has recently

## WHY NOT?



### USE THE BEST ON THE MARKET

Eagle Lead Pencils, Pen Holders, Steel Pens, Colored Pencils and Crayons, Compasses, Rubber Erasers, Etc. Send for samples and prices to the

**EAGLE PENCIL CO., 377-379 Broadway, New York.**

been provided with a McIntosh Improved College Bench Lantern.

A. E. Kaltenbrun, formerly of the Standard School Furnishing Co., now represents the R. O. Evans Co. in Chicago.

J. D. Adams & Co., of Indianapolis, Ind., deal in three different classes of goods, namely, office, road and school supplies. The latter includes school furniture.

The high estimation in which projection apparatus is coming to be considered of late is surprising, and attention is called to this fact by the statement of the McIntosh Stereopticon Co. of Chicago, relative to the large number of orders they are receiving for their new Improved College Bench Lantern from leading schools all over the country, and from many others who are including these instruments in their requisitions for the next school year.

Chicago. A large quantity of colored crayons were ordered of Favor, Ruhl & Co., New York; ink from Harry D. Kirk; blackboards from Henry McElwin; science supplies from the C. H. Stoelting Co.

New York. The Esterbrook Pen Company has the exclusive contract to supply steel pens for the schools.

Boston, Mass. The Peerless series of wall maps have been brought out by the Scarborough Company.

Chicago. The saws made by George H. Bishop & Co. are in use in various manual training schools throughout the country.

The following Boards of Education have recently placed orders with the McIntosh Stereopticon Co. for their up-to-date projection apparatus: Burlington, Ia., Highland Park, Ill., Lincoln, Neb., Louisville, Ky., Sault Ste. Marie, Mich., Three Rivers, Mich., Winthrop, Minn., Eau Claire, Wis., Freeport, Ill.

McKeesport, Pa. The contract for school supplies was given to W. G. Johnston & Co., a local firm.

New York City. The following firms were among recent successful bidders on school supplies and furniture: The Manhattan Supply Co., C. H. Browne, Frederick Loeser & Co., Richmond School Furniture Co., Alexander R. Brown, Slatington Slate Co., Walter J. Mitchell, Henry Lang, American School Furniture Co.

**PERRY & CO'S**  
ENGLISH MADE

**STEEL PENS**



ESTABLISHED 1824.

Samples and Prices from U. S. Sole Agents,

**PERRY & CO.**  
349 Broadway, New York.

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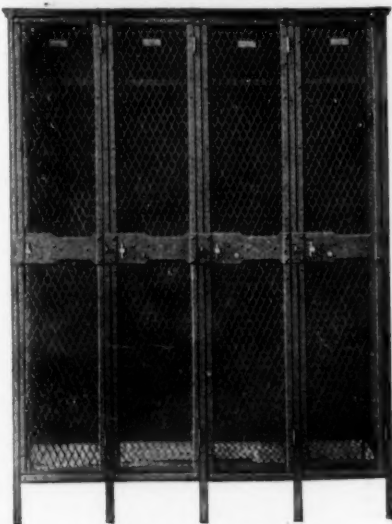
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### LOCKERS FOR SCHOOLS.

The firm of Merritt & Co., Philadelphia, is manufacturing lockers for schools and colleges which are exceptional in serviceability. They have been placed in the following educational institutions:



LOCKERS FOR SCHOOLS.

Colorado School of Mines, Golden, Col.; Simmons College, Boston, Mass.; Mass. Institute of Technology, Boston, Mass.; Normal School, Bridgewater, Mass.; Detroit Day & Home School, Detroit, Mich.; Yeatman High School, St. Louis, Mo.; Brewster Academy, Wolfeboro, N. H.; Lawrenceville School, Lawrenceville, N. J.; Cascadilla School, Ithaca, N. Y.; Philips Brooks School, Philadelphia, Pa.; Muhlenberg College, Allentown, Pa.; High School, Pottstown, Pa.; Polytechnic School, Brooklyn, N. Y.; Seattle High School, Seattle, Wash.; Polytechnic School, Montreal, Canada; Groton School, Groton, Mass.; Andover School, Andover, Mass.; U. S. Military Academy, West Point, N. Y.; Adelbert College, Cleveland, Ohio; Bles Military Academy, Macon, Mo.; C. M. Schwab Industrial School, Homestead, Pa.; Lafayette High School, Buffalo, N. Y.; LaSalle High School, La Salle, Ind.; Middlesex School, Concord, Mass.; New York Board of Education, New York City, N. Y.; High School of Commerce, New York City; Manual Training Schools, Washington, D. C.; Jacob Tome Institute, Port Deposit, Md.; Holybrook Military Academy, Sing Sing, N. Y.; Haverford College, Grammar School, Haverford, Pa.; Episcopal Academy, Philadelphia, Pa.; Drexel Institute, Philadelphia, Pa.

#### Pencil Manufacturer and Philosopher.

President John A. Walker of the Joseph Dixon Crucible Company of Jersey City, N. J., relapses occasionally into a reflective mood when he says something worth listening to.

Recently he found time enough from his exacting duties to make the following observations:

"The man who has attained the age of seventy," said he, "has had the opportunity to see the invention and development of the telephone, of the telegraph and of the electric light and almost the beginning of the modern railroad system. He has seen the rise of the big ocean liner, the cable system, the wireless system, the Pullman car and the sleeping car.

"He could have seen Daniel Webster, Henry Clay, John C. Calhoun, Henry Ward Beecher, Wendell Phillips, Ralph Waldo Emerson and Abraham Lincoln.

"During his time the Franco-Prussian war was fought, the American civil war, the Spanish war and the Russo-Japanese war.

"In his time Darwin wrote the original of the species and Herbert Spencer his great philosophy. Also in his time have risen to fame, Tennyson, Browning and Longfellow. In his time the journey to Europe has been brought down from sixty and seventy days to five days and a fraction.

"Business was then all individual firms; now it is all mighty combinations."

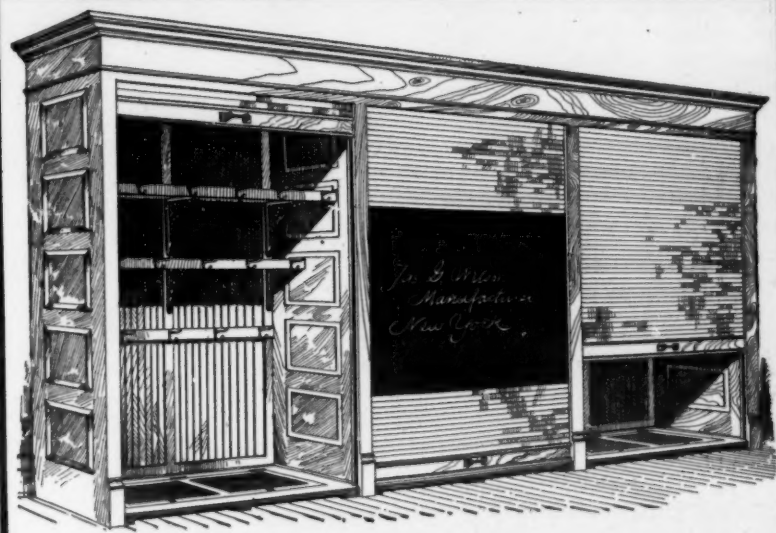
#### A SANITARY CRAYON.

The National Dustless Crayon is meeting with unusual success. A school public is undoubtedly turning its attention to the subject of crayons, and is beginning to discriminate between the detestable Plaster Paris crayons and the dustless product.

The business of the National Crayon Co. is increasing so rapidly that enlargements of the plant will have to be made. This is a hopeful sign in that it demonstrates the appreciation and increased demand for a meritorious article.

NO SCHOOL CAN BE PERFECT  
UNLESS FURNISHED WITH

**WILSON'S HYGIENIC WARDROBES**



BUILT IN SEVERAL DIFFERENT STYLES

Send for Catalogue and Prices

ALSO WOOD BLOCK FLOORING

**JAS. G. WILSON MANF'G. CO.**

3 WEST 29th ST., NEW YORK

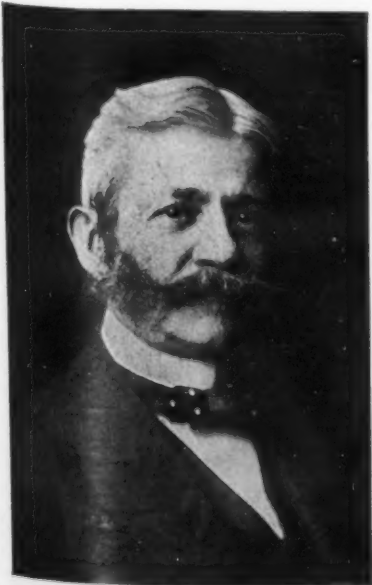
The plant of the National Crayon Co. is located at West Chester, Pa.

#### UP-TO-DATE-SCHOOLS.

Use up-to-date methods: One of these is the general adoption of a good line of projection apparatus.

Many school boards and superintendents are providing lanterns to all their grade schools, and most of them use the McIntosh instruments, which meet every requirement for ordinary class room demonstration as well as the most technical scientific work. At the same time they are afforded at a price which places them within the reach of every school, of every department of the larger schools.

Write to the McIntosh Stereopticon Co., of Chicago for information on this growing popular plan, and include one of their instruments in your list of apparatus for next year.



When  
the

**Holden Book Covers** are used.

The Textbooks are Made to Last Nearly Twice as Long.  
Kept Clean, Neat and Healthful.  
Not Dilapidated, Worn Out and Filthy.  
Protected from the Daily Handling, Wear and Soiling.  
Treated with Greater Respect by the Pupils.  
Inventoried at a Greater Value.  
Less Liable to Spread Contagious Diseases.

When an outfit of the HOLDEN SELF BINDERS and TRANSPARENT PAPER is supplied each teacher's desk, damages to the bindings and leaves can be repaired as soon as they occur, saving from \$5.00 to \$10.00 a year in each schoolroom, at a cost of but 25 cents.

The Holden System for Preserving Books

SAMPLES ON REQUEST.

Adopted by over 1650 School Boards.

**THE HOLDEN PATENT BOOK COVER CO.**

G. W. HOLDEN, President.

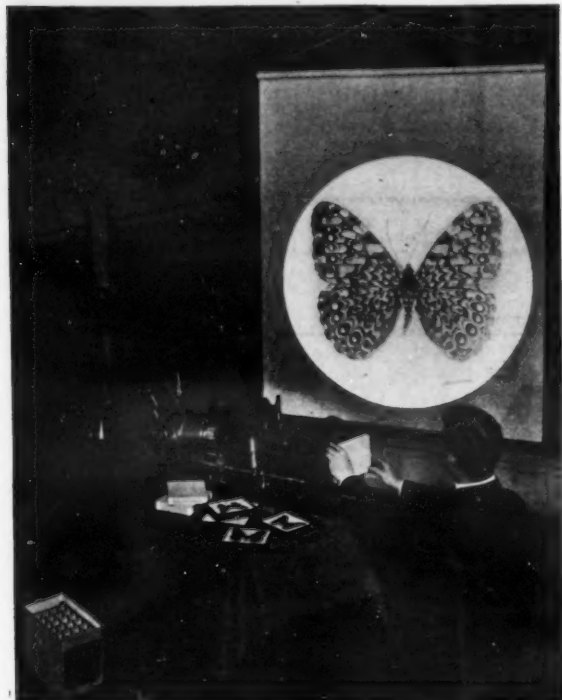
SPRINGFIELD, MASS.

M. C. HOLDEN, Secretary.

## NEW PROJECTION LANTERN.

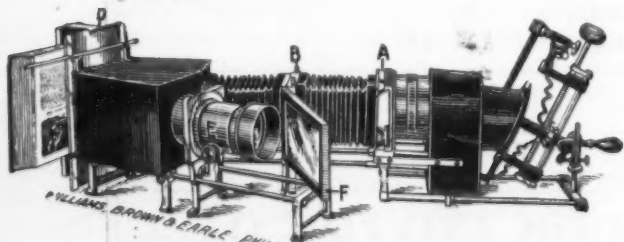
Designed for Showing Opaque Objects Upon the Canvas.

One of the most valuable instruments that has recently been added to the long list of apparatus for use in schools and colleges and for lectures, is the new reflecting lantern, for showing opaque objects on the screen. Heretofore, lecturers and teachers who used the projection lantern have been confined to the use of lantern slides, and have been unable to make use of natural specimens and the countless illustrations in books and magazines. By means of this new instrument, however, any illustration in a book or magazine, any sketch, either plain or colored, can be shown brilliantly on the screen. Not only can these be shown, but objects and specimens can be shown with equal facility; for instance, objects like the human hand, the open face of a watch, the works of a watch, the movement of every wheel and escapement showing perfectly and brilliantly. Natural specimens, such as butterflies, moths, pressed flowers and geological specimens, can all be shown brilliantly lighted and in their natural colors. The accompanying illustration shows a beautiful butterfly projected brilliantly on the screen.

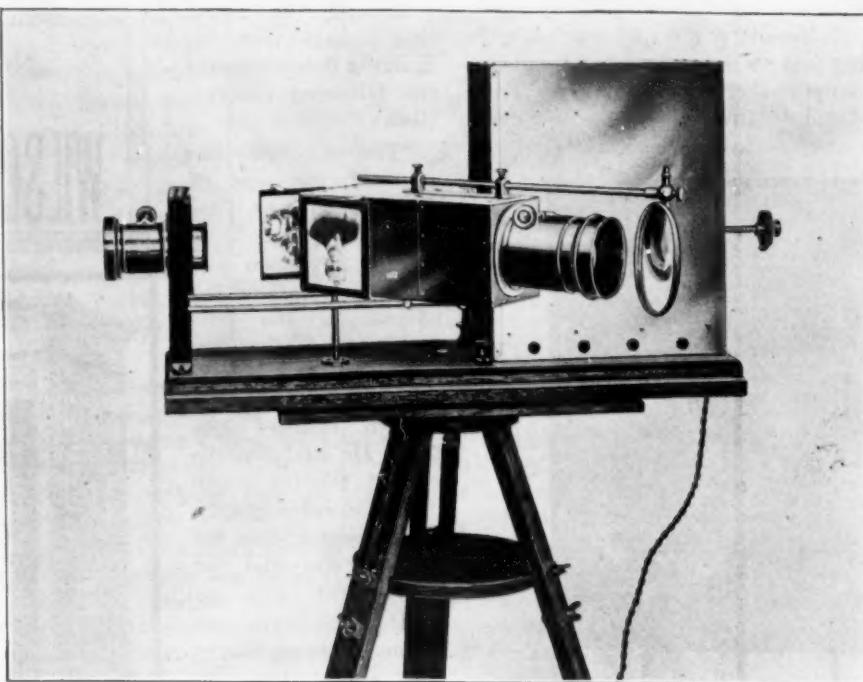


Operator shows an Enlarged Butterfly upon the Canvas. Manufactured by Williams, Brown & Earle, Philadelphia.

The great value of such an instrument is at once apparent, as it enables the lecturer to present any conceivable subject to large audiences, illustrating his remarks profusely with illustrations from books, plain or colored, and sketches of his own. In lectures on botany and etymology specimens can be shown on the screen in their natural colors, while in lectures on physics and psychology, various experiments and pieces of apparatus may be shown. If the apparatus is in motion, as for instance the movement of the indicator of a galvanometer or the works of a watch, all such movements are shown on the screen and all the colors of the original are reproduced.



The New Projection Lantern.



The New Reflectoscope, manufactured by A. T. Thompson & Co., Boston.

One of the most interesting features of the instrument is that it can be added to any standard stereopticon or magic lantern at a comparatively small cost. Such institutions as the University of Pennsylvania, the University of Michigan, Ann Arbor, Mich.; Cornell University and Harvard University have recently given orders to the manufacturers, Messrs Williams, Brown & Earle, of Philadelphia, to install their apparatus in their laboratories.

## PROJECTION WITHOUT SLIDES.

**The Reflectoscope Reproduces Objects on a Screen in Natural Colors and Magnified Many Times—The Only Expense is for the Light, and the Invention will be of Great Benefit to Hospitals and Educational Institutions.**

The reflectoscope, a new piece of apparatus which has been invented by Albert T. Thompson of Boston, promises to make radical changes in the manner of projecting illustrations upon a screen.

This machine is not intended to be a substitute for the stereopticon, but it will undoubtedly supplement its use in many instances where illustrated talks or lectures are to be given.

The reflectoscope differs from the stereopticon in that it can be operated without the use of lantern slides. By means of this machine opaque material such as photographs, lithographs, drawings, maps, reading matter, newspaper and magazine pictures, and, in fact, all objects of every name and nature that do not exceed five inches square, may be shown upon a screen in their true form and color.

Besides, the reflectoscope has been designed so that it may project lantern slides if desired. By its peculiar construction, the operator may pass from one form of projection to another without loss of time.

For the purpose of showing pictures, the reflectoscope may be placed at a distance varying from 15 to 35 feet from the screen. At the latter distance, the material which is shown is magnified 800 times. The machine can be used wherever there is an incandescent light, the current of electricity supplying the power for its operation.

Under whatever circumstances the stereopticon is operated, it is always attended by more or less expense for the lantern slides which, of course, limits its utility. In the case of ordinary slides it costs from 40 to 60 cents for every slide, and if colored slides are used, the cost varies from \$1 to \$2.50 for each one.

This shows how expensive even a small collection of slides may be, and it explains why instructors are so handicapped in the amount of material that they possess for purposes of illustration.

Now the reflectoscope can be operated without expense save the trifling cost for the electricity which furnishes the power.

Does the reflectoscope fulfil the demand? In demonstrating the machine to special representative, Mr. Thompson placed his hand within the receptacle which is intended for objects that are to be shown.

Immediately upon the screen, which was 20 feet away from the operator, there was reflected the latter's hand magnified many times, clear and distinct as the natural hand and exactly the color of human flesh.

The finger nails, the seaminess of the cuticle, the wrinkled flesh about the joints and a plain golden circle upon the third finger, were all pictured vividly upon the screen.

Mr. Thompson first conceived the idea of the reflectoscope about a year ago, and for the last six months it has been in use in different parts of this country and in Canada.

See page 20.

New York City. Among the men who serve the school system in a most loyal and self-sacrificing manner Richard H. Adams, chairman of the Committee on Buildings of the Board of Education, deserves special mention. Few men devote more time to the interests of the schools than Mr. Adams.



THOS. B. STOCKWELL,  
Retiring Superintendent.



WALTER E. RANGER,  
Superintendent-elect.

Hon. Thos. B. Stockwell who retires as State Superintendent of Public Instruction in Rhode Island will be succeeded by Prof. Walter E. Ranger who held a similar position in Vermont.





## "Lakeside"

THE PRACTICAL PENCIL  
SHARPENER FOR  
SCHOOLS AND COLLEGES

*A Perfect Point Quickly Obtained  
Does Not Waste the Pencil*

*Descriptive Circular Sent Upon  
Application*

**EBERHARD FABER**  
545-547 Pearl St., NEW YORK

### SCHOOL TELEPHONES.

#### Paper No. 1.

The magnificent examples of school architecture which form the special feature of this issue, would in conjunction with the probable installation of the latest type of heating, ventilating and sanitary apparatus with special furniture and perhaps electric time and program clocks, seem to indicate that every advantageous and economical appliance had been included. We are confident, however, that in a large proportion of the buildings "Proper Means of Communication" have been given but slight or no consideration.

It seems singular that "tallow candle" means of communication of our forefathers, instead of advancing by numerous stages of improvement as has the method of heating from the pine log to the present "blower" system or means of lighting from the candle to electricity, have only reached (except in a few schools) the use of speaking tubes, which instead of satisfying has been but a mere makeshift, indicating the desire for something better. Speaking tubes are most unsatisfactory and unsanitary. The former because the speaking quality of the system depreciates with every additional foot of tube installed and every elbow used, while time in addition oxidizes the latter because the breath of the previous user necessarily remains in the tube thus forming a receptacle for contagious disease germs.

Reference to speaking tubes will be eliminated in future papers and the discussion confined to the present general method of either personal or message communication and that by means of the telephone. In the July issue the strong economical feature in the use of

telephones for schools will be presented as of first importance, while the convenient feature which by many is supposed to constitute the principal advantage, thereby in part restricting their general use owing to their being termed a luxury, will be mentioned as secondary. It will also be shown that while the blower heating sys-

tem and lighting by electricity increased convenience and comfort it is done at an increased cost over previous methods, while the telephone not only furnishes convenience and comfort over the personal or message system of communication but at the same time is pronounced in its economical advantages.

In succeeding papers the subject of school telephones will be presented in such a way as, it is hoped, will be understood by every reader; no technical discussion being intended. Different systems of wiring, including service without intercommunication; intercommunication, with and without supervision of principal; "common talking" and "non-interfering intercommunication; "common return" and "metallic circuit" intercommunication; switchboard systems, wall and desk type, manual and automatic resetting, combined telephone and fire-alarm systems, accessories including cord pairs, listening cones, supervisory signals, outside service equipments, metallic and single circuit jacks, etc., will be thoroughly explained.

The writer will answer through the "Question Department" or direct through the editor any queries relating to the specific subject discussed in each current or any previous issue.

New York. After a long debate the School Board decided not to appoint married lady teachers.

East Des Moines, Ia. A rule has been adopted forbidding members of the board to furnish supplies or building material to the school system.

Lincoln, Neb. The domestic science department made its report by serving the School Board with a good dinner, cooked and served by the boys.



NEW HIGH SCHOOL BUILDING, Alhambra, Calif.  
A. C. Smith, Architect, Los Angeles, Cal.

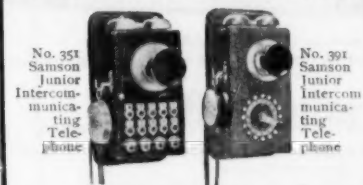
The locker manufacturing plant of Merritt & Co., Camden, N. J., was visited by fire on May 23rd, but the damage was confined to the Paint Rooms, Shipping Department and one Stock Room. The loss was fully covered by insurance and there will be no delay in filling orders as the manufacturing department was not injured at all, but was running as usual the day after the fire.

#### AMONG SCHOOL BOARDS.

Lincoln, Neb. The domestic science department made its report by serving the School Board with a good dinner, cooked and served by the boys.

## NOW FOR TELEPHONES

"Tallow Candle"  
Is the present method of  
SCHOOL COMMUNICATION



School, Lowell, Mass. School, Greenfield, Mass.

#### ECONOMY OF TIME

Note writing in schools should be as obsolete as ancient stone writing. The tendency towards shorter school sessions necessitates elimination of every unnecessary task of principal, teacher, or scholar. We term the convenience of telephones secondary to the economical advantage.



#### Telephones for Schoolrooms

#### UNINTERRUPTION

The telephone avoids nine tenths of all school interruptions. The visits of janitor, scholars with messages, and teachers, are discontinued. Book agents, solicitors, and undesirable visitors receive a courteous but quick dismissal through the ante-room telephone. They get no further.

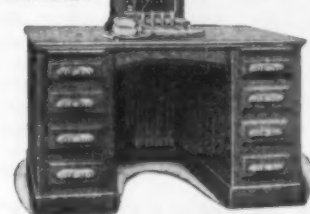
"Annunciphone"  
Telephone  
Switchboard  
Installed in  
Grammar Schools,  
Minneapolis, Minn.



#### COST OF INSTALLING

We furnish inexpensive but practical telephone systems adapted to the requirements of small schools, while high schools, normal schools, and colleges are equipped with every economy and convenience known to the telephonic art. Specifications for installing and estimates of cost submitted on receipt of floor blue-prints, with crosses designating location of phones.

"Rotokoll"  
Telephone  
Switchboard  
High School,  
Naugatuck, Conn.



#### PRACTICABILITY

Before inaugurating our school telephone advertising campaign, we conclusively demonstrated by time tests of actual installations, the practicability of our apparatus. Accompanying illustrations show types of our inexpensive, medium, and the most up-to-date systems.

Combined  
"Rotokoll"  
Telephone  
and Bell System

Normal  
School,  
Chicago, Ill.



#### DESCRIPTIVE MATTER

"School Telephone" Bulletin, No. 6, carefully illustrating and describing eight distinct systems, and "Telephone Practice" Bulletin, No. 7, illustrating actual installations, mailed on request.

#### ELECTRIC GAS LIGHTING CO.

TELEPHONE SPECIALISTS  
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## ALABAMA.

Anniston—To erect school on Leighton avenue; cost \$7,000.

## ARKANSAS.

De Queen—\$15,000 school to be erected. Siloam Springs—2-story, 11-room school to be erected; cost \$10,000.

## ARIZONA.

Yuma—\$25,000 school to be erected. Plans wanted. Address clerk school board. Bisbee—Archit. W. C. Hearst has plans for school; cost \$52,000.

## CALIFORNIA.

Los Angeles—Plans prepared for parochial school to be erected on Los Angeles street near 12th. Santa Barbara—Plans of Archts. Train & Williams, Los Angeles, accepted for erection of 2 schools costing \$24,000. Mountain View—Addition to school costing \$7,000 will be erected.

## COLORADO.

Arvada—To erect 4-room addition to school. Denver—Work has commenced on an addition to Miss Wolcott's school for girls; cost \$30,000.

## CONNECTICUT.

Waterbury—Plans prepared by Archts. Freney & Jackson for addition to the Sprague school have been accepted. Waterbury—Archts. Leonard Ashelm planned construction of Buck's Hill school.

## DELAWARE.

Wilmington—Addition to be erected to St. Paul school at Fourth and Van Buren streets.

## ILLINOIS.

Minier—Archts. Paul O. Moratz, Bloomington, is preparing plans for 2-story school; cost \$12,000. Sparland—Archts. Herbert Edmund Hewitt planned \$9,000 school. Danville—Plans preparing by Archt. U. E. Garrett for 2-story, 4-room school; cost \$6,000. Aurora—To erect \$100,000 high school at East Aurora. Byron—To erect 8-room school; cost \$14,000. Gridley—To erect \$12,000 school. Mound City—To erect addition to Lovejoy school. Chanderville—To issue \$8,000 in bonds for erection of school. Pekin—Site selected for \$15,000 school. Galena—To issue \$18,000 in bonds for erection of school. Chicago—To erect 12-room addition to James Otis school; 12-room addition to the Louis Nettlehurst school and a 3-room addition to the Alexander Hamilton school. Oak Park—Site selected for erection of high school. Champaign—Archit. Seely Brown has plans for an addition to the high school. Chicago—An appropriation has been made for the erection of 12-room addition to the Curtis school. Clinton—Plans of Archt. Hewitt, Peoria, have been adopted for erection of \$12,000 school. Gridley—\$8,000 in bonds to be issued for erection of school. Rockford—Work has commenced on the erection of a parochial school. Quincy—Plans prepared for the Franklin and Herrian schools and also for an addition to the high school. Medora—\$10,000 school will be erected. Waukegan—Plans of Archt. Worsfold for addition

to the McAllister school have been adopted. Hoopes-ton—Plans preparing by Archts. McCoy & Stuebe, Danville, for 8-room school. Urbana—3-story, \$25,000 school to be erected according to plans of Archt. J. W. Royer.

## INDIAN TERRITORY.

Duncan—\$12,000 school to be erected. Checotah—Have commenced work on \$17,000 school.

## INDIANA.

Westfield—Plans for 2-story, \$23,000 school. Archts. McCoy & Stuebe, Danville, Ill. Romney—Plans prepared by Archt. Geo. T. Gridith, Crawfordsville, for erection of 2-story high school. River Park—2-story, 4-room addition planned by Archt. W. W. Schneider, South Bend; cost \$8,000. Tipton—3-story, \$40,000 high school planned by Archts. Eberson & Finan, Hamilton, O. Logansport—Plans prepared by Archt. J. A. Cook for \$10,000 school. Ft. Wayne—Archts. Bradley & Allen have completed plans for erection of Hanna school. Warren—To erect 2-story, \$10,000 high school. Ft. Wayne—Appropriation of \$82,000 made for repairs and addition to School for Feeble Minded Youth. Lizton—\$12,000 school to be erected. Columbus—Site selected for \$10,000 school at East Columbus. Burrows—Rock Creek county to erect \$8,000 school. Center—Plans adopted for erection of school at Cedar Lake. Indianapolis—Plans preparing for an industrial school for girls to cost \$235,000; Archt. Clarence Martindale.

## IOWA.

Waterloo—Plans prepared by Archt. J. H. Stewart for erection of school. Moravia—Archit. Wm. M. Peatman, Centerville, has plans for school. Jefferson—To erect high school according to plans prepared by Archt. J. G. Ralston, Waterloo; cost \$20,000. Lyons—\$40,000 high school to be erected. Plans by Archts. Temple, Burrows & McLane, Davenport. Jewell—Archts. C. C. Cross & Son, Des Moines, have plans for \$7,000 school. Preston—To erect 2-story school. Manchester—Addition to school to be erected according to plans of Archt. Thos. T. Carkeek, Dubuque. Logan—Plans prepared for \$30,000 school. Irwin—To erect school. Osceola—Plans for \$6,000 school by C. C. Cross & Son, Des Moines, have been accepted. Ottumwa—School to be erected in West End. Logan—Plans preparing for a public school and high school, costing \$30,000. Archts. Proudfoot & Bird, Des Moines. Schaller—Will erect \$15,000 school.

## KANSAS.

Scammons—\$4,000 in bonds issued for erection of school. Caney—Bonds to the amount of \$25,000 issued for erection of school.

## KENTUCKY.

Ashland—Archit. J. B. Stewart, Huntington, W. Va. planned 2-story, 8 room school; cost \$10,000.

Louisville—Site purchased on Dunker ave. for erection of school.

## LOUISIANA.

Cheneyville—Plans of

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Archts. Arnold & Gauthier have been accepted for erection of high school. Lecompte—To build school to replace old one; cost \$8,000. Donaldson—Plans wanted for erection of high school. D. B. Showalter, Supt., Baton Rouge—2-story school planned by Archt. Favrot & Livaudais, New Orleans.

## MASSACHUSETTS.

Auburn—Archit. Edwin T. Chapin, Worcester, has plans for erection of school. Also prepared plans for addition to Stoneville school. Fall River—Plans preparing by Archts. Louis G. Destremps & Son for erection of 9-room, \$35,000 school for St. Joseph's parish. Pittsfield—W. B. Rice school to have 4-room addition; cost \$8,000. New Bedford—Plans for erecting high school to cost \$300,000 by Archt. Sam'l C. Hunt. Swampscott—Plans of Archts. Wheeler & Betton, Lynn, accepted for erection of 8-room school. Haverhill—Plans submitted for school to be erected on Wilson street. Palmer—To erect addition to high school; Archt. Gould & Chapman, Boston. Princeton—To erect \$14,000 school; Archt. Albert A. Barker, Worcester.

## MICHIGAN

Wexford—\$2,000 school planned by Archt. Jens C. Petersen, Traverse City. Lansing—Plans preparing by Archt. E. A. Bowd for addition to Walnut street school. Ishpeming—Archts. Charlton & Kuenzli, Marquette, are preparing plans for an 8-room school. Alma—Have accepted plans of Archts. Clark & Munger, Bay City, for \$20,000 primary school. Detroit—To erect five 15-room schools, to cost between \$50,000 and \$60,000 each. Archts. Malcomson & Higginbotham will prepare plans. Bay City—Plans for Woodside school by Archts. Pratt & Koeppe. Marquette—Crystal Falls district to issue \$40,000 in bonds for erection of school. Clinton—Archit. E. A. Bowd, Lansing, prepared plans for a \$15,000 high school. Walkerville—Archit. Charles Boener, Ludington, has plans for a 2-story school; cost \$6,000.

## MINNESOTA.

Redwood Falls—Plans by Archt. R. D. Church, Minneapolis, for erection of high school; cost \$23,000. Fairfax—Bonds to the amount of \$30,000 will be issued for erection of school. Archts. Downs & Eads, Minneapolis, to prepare plans. Fosston—Plans by Archt. F. D. Orff, Minneapolis, for high school. Lake Park—To erect 4-room addition to school; Archt. J. Friedlander, Fargo, N. D. Clements—Archit. Amos, New Ulm, to prepare plans for erection of school. Otisville—Swedish Lutheran church to erect school. Isanti—Plans by F. D. Orff, Archt., Minneapolis, for

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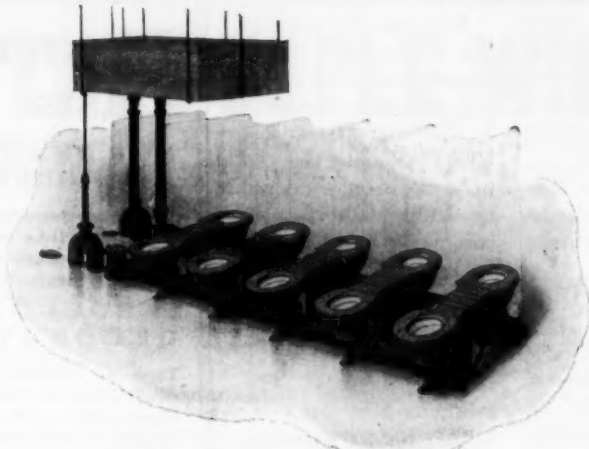
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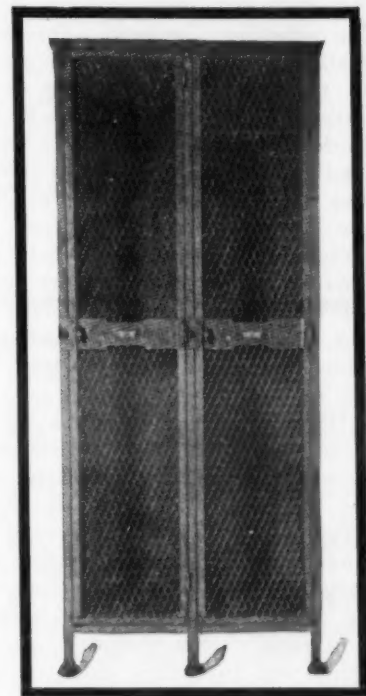
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erection of 4-room, \$10,000 school. Columbia—To build \$30,000 school. Grove City—Voted to issue \$12,000 in bonds for erection of school. Wheelock—School to be erected in Barnhard district. Stephen—\$20,000 in bonds issued for erection of school.

### MISSISSIPPI.

Bayspring—2-story, 6-room school to cost \$5,000 will be erected. Laurel—Plans for 3-story, \$25,000 school have been prepared.

### MISSOURI.

Springfield—Two schools to be erected. Kansas City—\$1,000,000 in bonds issued for school building purposes. Neosho—School to be erected in District No. 2. Hurdland 2-story, \$5,000 school to be erected. Eldon—To erect \$13,000 school. St. Joseph—An addition to be erected to the story high school to be erected according to plans of Archts. German Catholic school; cost \$4,000. Centralia—To issue \$12,000 in bonds for erection of high school.

### MONTANA.

Red Lodge—\$8,000 school to be erected on Billings avenue.

### NEBRASKA.

Emerson—Have accepted plans of Archt. J. P. Elsen-trout, Sioux City, Ia., for \$10,000 school for dist. No. 61. Platte Center—4-room school to cost \$12,000 will be erected. Omaha—Addition to Clifton Hill school; cost \$5,000.

### NEW HAMPSHIRE.

Lincoln—\$4,000 school to be erected.

### NEW JERSEY.

Kearney—Plans prepared by Archt. Jos. B. Kennedy for \$50,000 parochial school. West Hoboken—Have approved plans of Archts. Hensel & McDermott for No. 6 school. Morganville—Plans prepared by Archt. Henry A. Young, Key- port, for erection of school. Englewood—Archts. Taylor & Mosley are preparing plans for \$70,000 school. Jersey City—An appropriation of \$250,000 granted for rebuilding No. 6 school; extending No. 28, and erecting school in 10th and 7th wards. Archt. John T. Rowland, Jr. Ocean City—2-story high school to be erected according to plans of Archts. Davis & Davis, Philadelphia, Pa.; cost \$35,000. Newark—Plans completed for Elliott street high school. Salem—2-story school to be erected. Architects Davis & Davis, Philadelphia, Pa. Trenton—Bonds issued to the amount of \$7,000 for erection of 2-story, 4-room school at Farmingdale, Ham- ilton twp. Orange—Plans preparing for \$150,000 high school by Archts. Hale & Rogers, New York, N. Y., and Chicago, Ill.

### NEW YORK.

Troy—Plans submitted for erection of Rensselaer Poly- technic Institute. Brooklyn—Plans for training school on Park pl., nr. Nostrand avenue, Borough of Brooklyn by Archt. C. B. J. Snyder; cost \$260,000. Syracuse—High school to be erected on North Side. Allentown—Plans by Archt. J. Mills Platt, Rochester, for erection of 2-story \$6,000 school. Lima—Acht. Wm. J. Beardsley, Poughkeepsie, has prepared plans for erection of \$5,000 school in district No. 9. Leonardsville—School to be erected; cost \$5,000. Brooklyn—Plans for school to be erected on Robinson street, nr. Rogers avenue, by Archt. A. W. Ross; cost \$175,000. Catskill—\$35,000 high school will be erected. Baldwinsville

—Parochial school to be erected. Albany—Plans prepared for No. 16 school in the 19th ward. New York—Acht. C. B. J. Snyder has plans for \$35,000 school to be erected at De- lancey slip and Goerck street. Binghamton—Have selected Archt. Walter H. Whitlock to prepare plans for an addition to the Clinton street school; cost \$8,000.

### NORTH DAKOTA.

McKenzie—Voted to issue bonds for erection of school. Bismarck—\$20,000 in bonds will be issued for erection of school. Arvilla—School to be erected. Drayton—To issue \$8,000 in bonds for erection of school. Anamoose—Plans prepared for 6-room school. Archt. J. W. Ross, Grand Forks.

### OHIO.

Toledo—Plans by Archt. L. G. Welker for 8-room addi- tion to Hoag school; cost \$25,000. Cleveland—Archts. Hub- bell & Benes have plans prepared for erection of 3-story \$75,000 school. Cleveland—Plans for 3-story, \$50,000 school to be erected on Randolph street. Archts. Emile M. Uhlrich. Cincinnati—To erect 2-story school according to plans of Archt. Jos. E. Kinninger, Dayton; cost \$18,000. Bedford—Acht. H. O. Wurmser, Lorain, to prepare plans for \$25,000 school. E. Palestine—\$19,000 in bonds issued for erection of school. Franklin Square—Will erect school. West Union—To erect school. Middletown—\$24,000 in bonds to be issued for repairs on the South school. Westerville—Plans completed for \$3,000 school by Archt. E. H. Rickett, Columbus. Alliance—2-story, \$12,000 addition to school planned by Archt. W. S. Epperson. Barnesville—Acht. Wil- bur T. Mills, Columbus, to prepare plans for erection of \$35,000 school. Marion—Plans preparing for 2-story, 8-room school; cost \$20,000. Howard—Plans have been prepared for \$15,000 school by Archt. Wilbur T. Mills, Columbus, O. Mt. Gilead—Archts. Stribling & Lum, Columbus, have plans for 6-room school to cost \$15,000. Youngstown—Competitive plans are being prepared for a 10-room school for the South Side, and a 5-room building for Lansingville. Caldwell—\$14,000 in bonds to be issued for erection of school. Toledo —To erect additions to the Raymer and Chase schools; plans are being drawn. Hartford—Acht. Vinton, Sharon, has sub- mitted plans for addition to be erected to school. Glenford —Acht. W. T. Mills, Columbus, O., is preparing plans for erection of 5-room school. Coal Grove—To erect school. East Palestine—To issue bonds in the amount of \$19,000 for erection of school. Cleveland—8 portable schools to be erected.

### OREGON.

Harrisburg—To erect \$10,000 school.

### PENNSYLVANIA.

Pittsburg—Plans for 18-room school on Miller street by Archt. John B. Elliott; cost \$100,000. Connellsville—Have selected Archt. J. C. Fulton, Unlontown, to prepare plans for 12-room school; cost \$35,000. Austin—To erect 2-story, 8- room school according to plans of Archt. G. M. Rees, Cou- dersport. Meadville—Archts. Bolton & Dull, Philadelphia, have plans for 2-story preparatory school for Allegheny Col- lege. Collomsville—\$3,000 school to be erected. Johnstown —Plans to be submitted by Archts. Boyd & Myton for erec- tion of \$30,000 parochial school. Longawamp Center— Plans prepared by Archt. Dan'l F. Brown, Reading, for erec- tion of 2-story, 4-room high school. Philadelphia—Plans by Archt. R. W. Boyle for erection of 3-story parochial school at Westmoreland and G streets. Downingtown —Acht. Henry L. Reinhold, Jr., has submitted plans for erection of 12-room school.

### SOUTH CAROLINA.

Rowman—To issue \$5,000 in bonds for erection of school.

### SOUTH DAKOTA.

Wakonda—Plans submitted for \$5,000 school. Brookings—Archts. Bell & Det- weller, Minneapolis, Minn., to prepare plans for \$12,000 school. Baltic—Will erect school. Sioux Falls—Plans ac- cepted for \$15,000 school; Archt. M. S. Detweiler, Minneapolis, Minn.

Concluded on page 32.

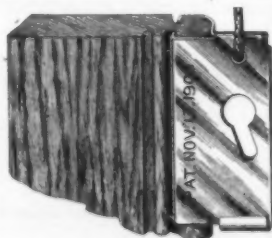


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## SEWAGE DISPOSAL FOR SCHOOLS.

School authorities have in recent years given considerable attention to the subject of sewage disposal. In cities where a well planned system includes the school houses no question arises in connection with a sanitary disposal of sewage matter.

In the smaller cities, however, sewage disposal has become a serious question, and the efforts on the part of sanitary engineers have resulted in gratifying results.

The firm of Lewis & Kitchen, of Kansas City, Mo., and of Chicago, Ill., have perfected a system which operates as follows:

The sewage is first received into a sediment well which retains all solids that cannot be liquified. If there is ever any attention required by the plant, it will be found restricted to this well, which is easily accessible and which ordinarily does not need to be cleaned oftener than once in several years.

It then flows into a septic tank. There are two of these, the crude and the clarified. The word *septic* may be readily understood from its relation to antiseptic. It means the promotion of putrefaction. Slowly flowing from the inlet to the outlet of the crude septic tank it relinquishes the matters held in suspension, precipitating the solids of greater specific gravity than water, downward and those of less specific gravity, such as gases, grease and floating substances, upward. This brings about a distinct division of the septic tank contents into three parts. At the top a floating scum varying from six (6) inches to three (3) feet in depth and at the bottom a deposit of silt of similar variable depth. The intermediate portion is a clarified liquid and at its contact with the upper and lower divisions the bacterial action is most active, continually preserving the approximate proportion of the three by liquefying these upper and lower divisions and throwing them off into the intermediate division which flows from the crude tank into the clarified septic tank.

Here the same operation as before takes place; this time giving a comparatively clear effluent at its outlet of the tank and one ready for the second stage of its treatment. The action so far has been the work of a class of microscopic organism known as anaerobic bacteria. That is bacteria opposed to air. It has been proven that these bacteria multiply most rapidly when excluded from air and sunlight, and that they exist without need of oxygen. Their agency being unnecessary when the sewerage has become thoroughly liquified, the resulting effluent will become dead and incapable of rapid purification unless rid of them. This is accomplished by aerating the fluent; that is, exposing it to the daylight and fresh air which is fatal to these bacteria. It is at this period that the second stage begins—that of purifying the liquified sewage. This is accomplished by different methods, all of which are intended to thoroughly aerate the liquid and subject it to the action of a second class of bacteria known as aerobic bacteria or those that thrive in the air. They will, if the conditions are proper, tend to oxidize the effluent and render any desired degree of purity. For this purpose stone filter beds which promote the life of aerobic bacteria are provided.

The water coming in contact with the surfaces of the stones is acted on by the bacteria and is revitalized. All there remains to be effected is the removable of any mineral substances held in solution by the water. This is a mere matter of mechanical filtration through a sand filter, after which process the water emerges pure, and harmful neither to man nor beast.

## MUST CALL ROLL.

Because the clerk of the Rocky River, Ohio, school board failed to call the roll Professor J. Sherman Beck lost \$900. This was the gist of a decision rendered by Judge Lawrence in common pleas court.

Over a year ago Professor Beck was elected to the position of superintendent of the Rocky River schools. The salary is \$900 for each term. Before the term of school began the school board was ousted from office by the new municipal code and replaced by a new board. The new school board engaged another superintendent and ignored Professor Beck and the action of the old board. The new board asserted that the former superintendent smoked tobacco.

Professor Beck sued for the salary he would have earned had he remained in office. Yesterday the court decided against him because a roll call vote was not taken by the old board at the time he was elected to the position.

## WHY MEN QUIT TEACHING.

How to hold a good man in the school field is even more important a problem than how to get him there, says the Forum. Fair salaries, progressively increasing as the years roll on and the service improves, will do something. But insecure tenure of office and the re-examination evil have driven more men out of teaching than inadequate pay. Present usage permits any school superintendent, says the Chicago Post, to brush aside with one sweep of the hand all the past record of a candidate and to subject him to more or less absurd literary tests. So firmly is this practice established that the average school superintendent cannot even get himself to think of any other plan for determining the qualifications of a teacher. The procedure in vogue is something like this: A principalship paying \$1,200 or more becomes vacant. The superintendent advertises the fact far and wide to attract candidates. As a rule, he has decided in his mind whom he wants to appoint before the examination is held, and the test is shaped accordingly. Nevertheless, without one pang of conscience he will put the candidates to the expense of coming to his examination. Can we blame men for turning away from teaching?

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"Mapmaker," said the passenger in the long linen ulster.

"Publisher, eh?" "No. Soldier."

"My dear," said the learned man, "I think I shall write a dictionary."

"What for?" asked his wife.

"Then I can at least get a word in here and there."

## EADIE'S PHYSIOLOGY

In this little book narcotics are treated from the athletic standpoint. A letter from Courtney, the coach for Cornell Crew, gives his opinion on narcotics in the training house. Letters from Captain McBride of the Yale Football Team, and Captain Edwards of the Princeton '99 Football Team, give their opinion on narcotics. General Superintendent Van Etten, of the New York Central and Hudson River R. R., tells in a short letter, their policy with regard to employment, or continuing in employment, those who are known to be in the habit of drinking intoxicating liquors. The subject of alcohol is also treated in letters from Arctic explorers. General Francis V. Greene, who commanded the second Manila expedition, writes on the effect of alcohol in the tropics.

Treatise on first aid to the injured, contagious diseases, care of the teeth, effects of cleanliness, etc.

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(AUTOBIOGRAPHY OF A BUTTERFLY just out—The Publishers.)

## DODGE'S GEOGRAPHIES

"We are greatly pleased with the books, both Elementary and Advanced. It is a relief and an inspiration to note the delight and enthusiasm with which our teachers and pupils pursue the study. They are the most teachable texts that I have seen."—W. O. Anderson, Superintendent, Lafayette, Colo.

## LINEBARGER'S LABORATORY MANUAL FOR CHEMISTRY

"I have used Professor Linebarger's Chemistry Manual since the beginning of the school year and have found it an admirable work. It is particularly serviceable in that the laboratory directions are complete and plain enough to enable the pupil to work by himself. I recommend the work highly."—W. A. Averill, Instructor in Chemistry, Highland Park, Ill.

## THE HOLTON PRIMER AND LIGHTS TO LITERATURE READERS, BY GRADES

"I cannot speak too highly of the Holton Primer. The teachers and pupils are enthusiastic over it. It is seldom that a book for any grade is so attractive in form. An experienced teacher appreciates it and an inexperienced teacher is guided by it."—T. E. Savage, Principal of Schools, Kirkwood, Ill.

"As we become better acquainted with your Lights to Literature, we are more and more pleased with them."—E. C. Rosseter, Principal, Medill School, Chicago, Ill.

## SABIN'S AN EYE AND EAR SPELLER

This book is just off the press and no one has had an opportunity to use it in class work. It is the mission of this book to help the child by means of the hearing ear and the seeing eye to learn with the least possible appeal to memory, the vowels and consonants that correspond to the two elements of spoken words.

Doesn't the title interest you?

## TELLER AND BROWN'S FIRST BOOK IN BUSINESS METHODS

"I have been using your First Book in Business Methods for the past five months in my eighth grade, alternating with arithmetic. The pupils are much interested in the work. It is attracting the attention of the parents, and especially the business men of the community, who have expressed themselves as delighted with the introduction of so pertinent and practical a subject. I am charmed with the work."—T. P. Scott, Superintendent of City Schools, Brookhaven, Miss.

## PERDUE AND GRISWOLD'S LANGUAGE THROUGH NATURE

"Language through Nature, Literature and Art appeared on my desk. It took a very short time for my teachers and myself to decide that we had found what we wanted. The test of the book in actual classroom use has more than verified our expectations."—Ralph S. Garwood, Superintendent of Public Schools, Marshall, Mich.

## MISS DOPP'S TREE-DWELLERS AND EARLY CAVE-MEN

"The Tree-Dwellers and Early Cave-Men exceed my most sanguine expectations in actual use in the schoolroom. Children who for some reason have never been interested in their school work are most enthusiastic and respond readily in using these books."—Miss M. A. Besley, Superintendent of Public Schools, Waukegan, Ill.

## MISS GROVER'S SUNBONNET BABIES PRIMER AND OVERALL BOYS

"Twenty-nine of my pupils have read Sunbonnet Babies Primer and are now enjoying Overall Boys. You have not exaggerated the value of these books; the children are so delighted with them that several of the parents have expressed a desire to see them and, at the earnest request of their little ones, have purchased copies for their birthdays."—Miss Hattie S. Fales, Principal of Coggeshall School, Newport, R. I.

The above are just a few of the seventy-two new school books published by us during the past five years. We have others under way. Would you like to know more about them? If so, let Uncle Sam connect us.

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## Among Superintendents.

The following increases in the salaries of superintendents was recently made: Allegheny County, Samuel Hamilton, from \$5,000 to \$8,500; Pittsburg, Pa., Samuel Andrews, from \$5,000 to \$6,000; Columbus, O., J. A. Shawan, from \$3,000 to \$3,600; Reading, Pa., Charles S. Foos, from \$2,500 to \$3,000; St. Louis, Mo., F. Louis Soldan, from \$6,500 to \$7,000; Fond du Lac, Wis., William Wilson, from \$1,500 to \$1,600.

Among the superintendents who retire with the end of the school year are J. H. Collins, Springfield, Ill.; J. C. Van Etten, Dunkirk, N. Y.

Shenandoah, Pa. Supt. J. W. Cooper recently tendered a banquet to the members of the school board, library trustees and principal-school board appointees.

Greater New York. The public school system comprises two training schools, fourteen high schools, five high school departments, four hundred and eighty-one elementary schools, two truant schools and one nautical school. There are 13,444 regular teachers, and the average

monthly registration of pupils for 1904 was 540,389.

Indianapolis, Ind. A system of medical inspection will be instituted in the schools under the joint control of the Board of Education and the Board of Health.

The city sanitarian has drawn up a set of instructions for the guidance of the medical inspectors and the Board of Education has approved of them.

The inspection will be bi-weekly or weekly, this to be determined later. Inspectors will investigate the condition of playgrounds, buildings, ventilation, seating arrangement and sanitary conditions. Where individual cases of sickness need attention the teacher is to notify the principal who in turn will consult with the medical inspector. Only in extreme instances will the physicians take cognizance of individual cases.

Braddock, Pa. Samuel Hamilton has been re-elected county superintendent and his salary fixed at \$8,500. This is the highest salary paid in the United States filling a county superintendency.

"It seems to me that from a historic point of view the teachers of Southern Indiana constitute the aristocracy of the profession in this state," said a public school teacher recently. "Why? Because they are the professional if not the lineal descendants of the educational pioneers of the state. They represent, in a way, the beginnings of education in Indiana."

## Recognition of a Worthy Man.

No superintendent in the United States has a larger School Board over him than Charles S. Foos of Reading, Pa. Its membership exceeds sixty.

The most unusual thing occurred recently when he was re-elected without a single vote against him, and his salary raised from \$2,500 to \$3,000 with equal unanimity.

This fact will seem even more remarkable when it is remembered that Mr. Foos is exceptionally unassuming in manner. He appears unassertive and is regarded as a sort of silent man.

There is, however, a tremendous under-current in his make-up and his energy and industry are most intense. He is relentless in his efforts to advance the interests of Reading's school system and his success is acknowledged.

The Reading board acted wisely in making the reappointment and justly in raising the compensation.



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### The School Board Meeting.

The School Director from the west district arose and said:

"Will the gentleman permit me to ask a question?"

"Yes, if it is germane to the matter in hand," was the reply.

"It is, Mr. President, the question is this: How long has the distinguished school director upon my right been speaking on this question?"

"Three years."

"Then, Mr. President, I ask unanimous consent to move that he be allowed six months to finish his speech."

But the chair refused to entertain the motion, and the school director upon the right went on talking.



### To Be or Not to Be.

The Deposed Educator: "Will I become an insurance agent or a school bookman; which?"

### Auch eine Vorbereitung.

Vater: "Wie kannst Du nur so häufig ganze Nächte durchschwärmen, Arthur?"  
Stud. med.: "Aber Papa, damit trainire ich mich ja nur! Bedenke, wie oft ich später als Arzt mitten in der Nacht heraus muß!"

### Unüberlegt.

Professor: "Ich kann Ihnen unmöglich die Frequenzbestätigung geben—ich habe Sie niemals im Hörsaal gesehen!"

Student: "O bitte, Herr Professor verwechseln mich gewiß mit einem Anderem!"

### A Scientific Diagnosis.

College Senior: "So you think Tom will propose?"

College Junior: "Yes; last night his pulse was 70—temperature 95; this afternoon his pulse was 90—temperature 105; I think the crisis will occur by to-night."

### Another Hunt.

"Say," queried the shade of Plato, "where is Diogenes?"

"Oh, he's got a new scheme," replied the shade of Socrates. "He took his lantern this morning and started for the United States to look for a teacher who believes that her salary is too high."

### Sure Remedy.

Bookseller—"How is the demand for 'Fickleberry Humn' and 'Sam Tawyer' keeping up?"

Assistant—"It has been falling off lately."

Bookseller—"Send a literary note to the papers to the effect that another public library has excluded them from its shelves."

Father (meaningly)—Who is the laziest boy in your class, Tommy?

Tommy—I don't know, pa.

Father—I should think you would know. When all the others are industriously studying or writing their lessons, who is it sits idly in his seat, and watches the rest, instead of working himself?

Tommy—The teacher.

### Willie's Gone to School.

Dear little Willie's gone to school—

We left him at the door—

The baby that his mother had,

Alas, is here no more!

His little kilts are put away,

His flaxen curls are shorn;

His toys lie in the hall to-day,

Neglected and forlorn.

Our neighbors' chickens calmly hunt

For bugs, and worms, and things,

Or sun themselves, relieved from fear

Of broken legs or wings.

The dozing cat is huddled up

All in a peaceful heap,

And out upon the steps the pup

Is catching up on sleep.

Ah, sighing little mother, why

Sit looking pensive there?

There still is sunlight in the sky

And sweetness in the air.

The peaceful moments calmly go—

Come! come! don't be a fool!—

I'm sorry for the teacher, though,

Since Willie's gone to school.

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**Joseph Dixon Crucible Co.**  
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Young Professor: "Peter, you are raising entirely too much dust.

Janitor: "Vell, dat's the only way I can raise any dust at \$20 a month.

A schoolboy in Jewell City, Kansas, was assigned to prepare an essay on the subject of "Ducks," and this is what he wrote: "The duck is a low, heavy-set bird, composed mostly of meat and feather. He is a mighty poor singer, having a hoarse voice caused by getting so many frogs in his neck. He likes the water and carries a toy balloon in his stomach to keep him from sinking. The duck has only two legs and they are set so far back on his running gears by nature that she came purty near missing his body. Some ducks when they get big have curls on their tails and are called drakes. Drakes don't have to set or hatch, but just loaf, go swimming and eat. If I was to be a duck I'd rather be a drake every time."

"I hope I do not hurt your feelings by declining," she says, blushing; "but the teacher proposed to me as soon as I told him what my subject would be."

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### NEW SCHOOL BOARD LAW.

The City of Wilmington, Del., has a new school board law which contains the following provisions:

Each candidate for the board, including the candidate for president, must file his name fifteen days before the election, and with it a certificate in which his candidacy is endorsed by twenty-five qualified electors; in the case of the president the signers can be from the city at large, while in the case of the other members the endorsers must be from the wards in which they reside, and no elector is permitted to sign more than one petition. The petitions are to be filed with a special board of canvass, consisting of the mayor of the city, the president of the board, the city treasurer, city solicitor and the secretary of the Board of Education, who is to be the clerk to the board of canvass. This board will pass upon the petitions and certify the names of those eligible to the Department of Elections, which will have the tickets printed and conduct the election at the expense of the Board of Education. On the ticket in each ward will be printed the names of the candidates for member from that ward and also the candidates for president of the board, and all are to be scratched out except the one for each office for whom the elector desires to vote.

### SCHOOL HOURS FOR CHILDREN.

Consul General Guenther, representing the United States at Frankfort, Germany, in a report to the State Department, gives the views of Dr. Otto Dornblueth, of that city, a specialist in nervous diseases, regarding the practice of holding afternoon sessions in the public schools. In support of his position he points to the investigations instituted among 16,000 school children by the distinguished expert in school hygiene, Dr. Schmidt-Monnard, of Halle, who found that the number of sick among the children attending morning and afternoon sessions was one-half greater than among children who attend sessions in the forenoon only. The investigation by Prof. Koppmann, of Leipzig, led to the same conclusion.

Dr. Dornblueth favors a morning session of five hours, giving a resting pause of fifteen minutes at the end of each hour. He says that the afternoon sessions exhaust the vitality of the children, disturb their digestive organs, and tire their brains. From a medical standpoint afternoon sessions should be abolished. The afternoon hours should be given

to play, outdoor exercise and physical training. The selfish motives of many parents in not wishing the children at home because they are bothersome and require supervision should not avail against a reform which is necessary and beneficial for the little ones. The doctor suggests the establishment of public retreats where the children who cannot be supervised at home may spend the afternoon hours in the care of one or more suitable adults. He suggests that these retreats be provided with implements and material and that children desiring instruction in light handicraft may be accommodated.



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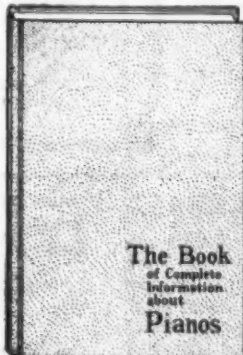
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### NEW SCHOOL BUILDINGS.

Concluded from page 27.  
TENNESSEE.

Chattanooga—Arch. G. Q. Adams is preparing plans for erection of school for colored people; cost \$3,000. Ashland—Will erect 2-story school; cost \$20,000. Bristol—\$12,000 school to be erected at Fairmount. McKenzie—\$4,000 school to be erected.

#### TEXAS.

Marietta—\$15,000 in school bonds to be issued. Aubrey—\$6,000 in bonds to be issued for erection of school. Bryan—Plans of C. H. Page, Austin, adopted for erection of \$6,000 school. Bay City—Arch. C. H. Page, Jr., is preparing plans for erection of \$10,000 school. San Angelo—2-story, \$15,000 school to be erected according to plans of Arch. Oscar Ruffini. Graham—Voted \$20,000 in bonds for erection of school.

#### UTAH.

Lehi—Plans preparing for 2-story, \$18,000 school. Arch. T. T. Davies, Provo City.

#### VIRGINIA.

Bristol—School to be erected in First ward.

#### WASHINGTON.

Almira—Plans by Arch. Alfred Jones, Spokane, for erection of 2-story school. Deepcreek. Archts. Russell & Vincent, Spokane, prepared plans for \$6,000 school. Orchard Park—Plans prepared for \$6,000 school by Archts. Russell & Vincent, Spokane.

#### WEST VIRGINIA.

Fairmont—Archts. A. C. Lyons is preparing plans for 2-story, 13-room school; cost \$22,000. Philippi—Archts. Holmboe & Lafferty, Clarksburg, have plans for \$12,000 addition to school. Clarksburg—\$60,000 to be expended in erecting two schools.

#### WISCONSIN.

Carter—Arch. Derrick Hubert, Menominee, Mich., prepared plans for erection of school. Wabeno—To erect 2-story, 6-room school according to plans of Arch. Derrick Hubert, Menominee, Mich., cost \$15,000. Rhinelander—Plans for Archts. Parkinson & Dockendorff, La Crosse, for \$12,000 school accepted. Red Granite—\$8,000 school is being erected. Two Rivers—School to cost \$6,000 will be erected. Madison—\$12,000 school to be erected in the Tenth ward. New Richmond—Work has commenced on the \$45,000 high school. Milwaukee—Plans are being prepared for the state normal school.

### MALE TEACHERS WANTED.

The Normal School Boards of California deprecate the lack of male students in training for the teaching profession. In the San Jose Normal there are 400 women students and 4 men! This disproportion of sexes is great in all the Normal schools. Educational officers are looking around for a reason for this. They need not look far. Without any wish or agency of their own the pay of women teachers has fallen below the salary that men will accept.

"A man wants to earn enough to marry,"

established by common consent. If a man's job be taken by a woman the pay is lowered. If a woman's job be taken by a man the pay is raised, though the service and fidelity and skill in performing it remain the same. It is especially unfortunate that this system has so involved the schools that men have practically disappeared from the teaching profession.

Thinking to puzzle the eminent physicist and microscopist, they brought him a miscellaneous collection of articles taken from the stomach of an ostrich.

"You can't fool me on that, gentlemen," he said. "That's the contents of a boy's pocket."

Young Professor (who has taken her down to dinner)—"By the way, Miss Gaswell, have you ever seen the nebula of Andromeda?"

Miss Gaswell—"No; I was abroad with papa and mamma when that was played. But I've heard that it drew crowded houses."

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